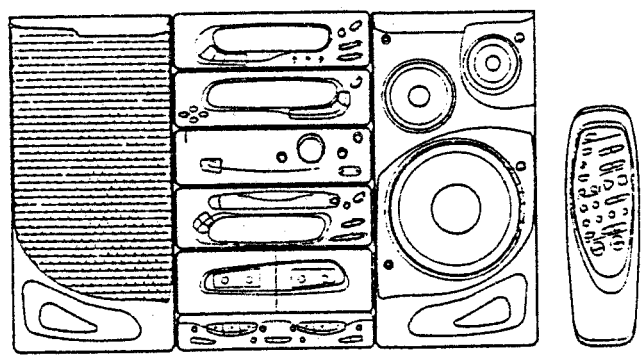
GoldStar

COMPACT DISC STEREO SYSTEM

# SERVICE MANUAL

COMPACT disc DIGITAL AUDIO



MODEL : FJ-676
FR-676A

GoldStar

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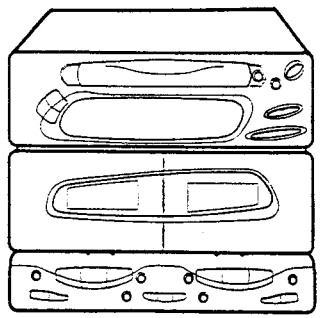
# STEREO LOGIC DOUBLE CASSETTE DECK & COMPACT DISC PLAYER



**MODEL: FJ-676**

## 1. TAPE DECK

| | | |
|---|---|---|
| ① Tape speed | High speed | Approximately 8.55cm/sec |
| | Normal speed | 4.75cm/sec |
| ② Wow & flutter (JIS-WTD) | | 0.2% |
| ③ Fast forward and rewind time (C-60) | | 120sec |
| ④ Frequency response (4dB range) | | 250Hz~10kHz |
| ⑤ Signal-to-noise ratio | | 50dB |
| ⑥ Distortion (Playback/Record) | | 1%/1.5% |
| ⑦ Crosstalk | | 50dB |
| ⑧ Channel separation | | 35dB |
| ⑨ Erase ratio | | 60dB |

## 2. COMPACT DISC PLAYER

| | |
|---|---|
| ① Frequency response (40Hz~20kHz) | ±0.5dB |
| ② Signal-to-noise ratio | 85dB |
| ③ Dynamic range | 85dB |
| ④ T.H.D. | 0.05% |
| ⑤ Channel separation 100Hz/1kHz/10kHz | 80dB/80dB/70dB |
| ⑥ Access Time (Short/Long) | 2sec/6sec |

## 3. GENERAL

| | | |
|---|---|---|
| ① Power requirement | Tape deck section | AC 15V, AC4V, DC-30V |
| | Compact disc player section | DC 12V |
| ② Dimension (W x H x D) | | 240 x 203 x 265mm |
| ③ Weight | | 4.1kg |
| ④ JACKS | | POWER+SIGNAL (20 PIN SOCKET), SIGNAL (10 PIN SOCKET) |



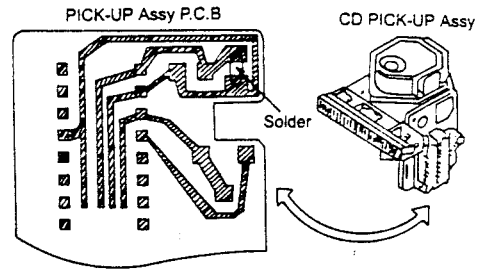


# SERVICE INSTRUCTIONS

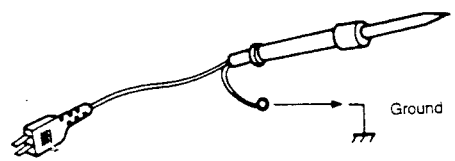
## PRECAUTION TO REPLACE OPTICAL BLOCK

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1). After the connection, remove solder shown in right figure.




To prevent electrostatic breakdown, laser diode and ground are connected with solder.
NOTE : When removing solder, be sure to use a grounded solder-iron, to prevent electrostatic breakdown.




## CAUTION FOR HANDLING THE OPTICAL PICK-UP

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load. etc. on clothing and the human body. So, when handling a pick-up, the procedure for grounding as follows is required to prevent damage caused by static electricity.

1. Grounding For Human Body.
   Be sure to put on a wrist-strap for grounding (with impedance lower than $10^6\Omega$) whose other end is grounded. The strap works to drain away the static electricity build-up on the human body.
2. Grounding For the Work Table.
   Be sure to lay on the table a conductive sheet (with impedance lower than $10^6\Omega$) such as a sheet of copper, which is grounded.
3. As static electricity build-up on clothes is not drained away, be careful not to let your clothes touch the pick-up.

# ADJUSTMENTS

This set has been aligned at the factory and normally will not require further adjustment. As a result, it is not recommended that any attempt is made to modificate any circuit. If any parts are replaced or if anyone tampers with the adjustment, realignment may be necessary.

## TEST & ADJUSTMENT POINT

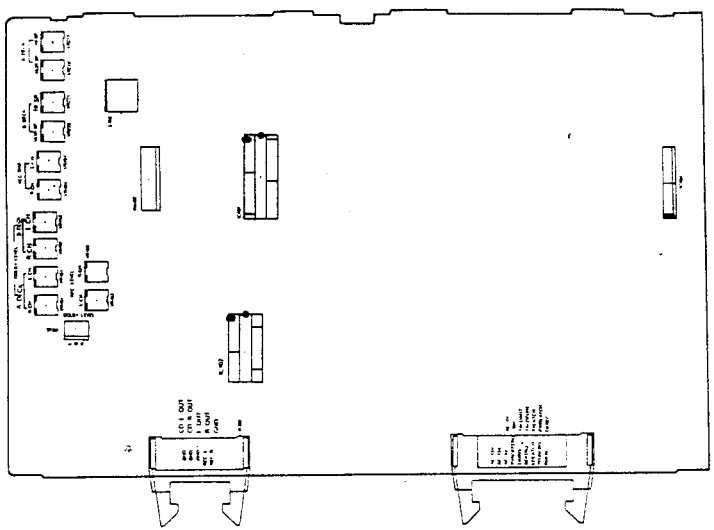


Figure 1. MAIN P.C. BOARD

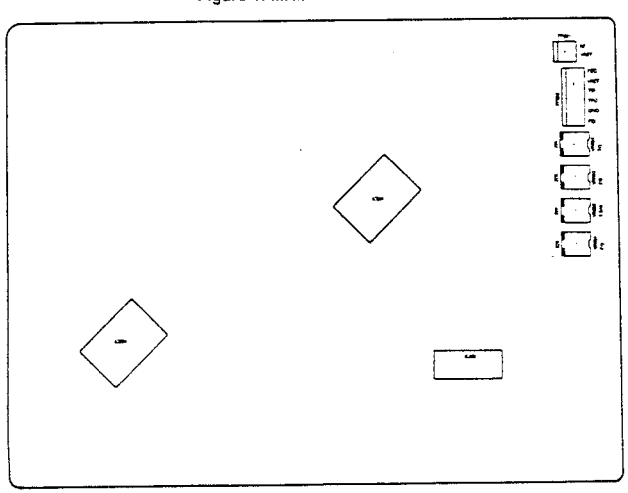


Figure 2. CD P.C. BOARD





## TAPE DECK ADJUSTMENTS

### 1. AZIMUTH ADJUSTMENT

| Deck Mode | Test Tape | Test Point | Adjust for | Adjustment | Remark |
|---|---|---|---|---|---|
| Playback | MTT-114 | Line Out | Head Screw | R/L Maximum | FORWARD: Lefthand side screw<br>REVERSE: Righthand side screw |

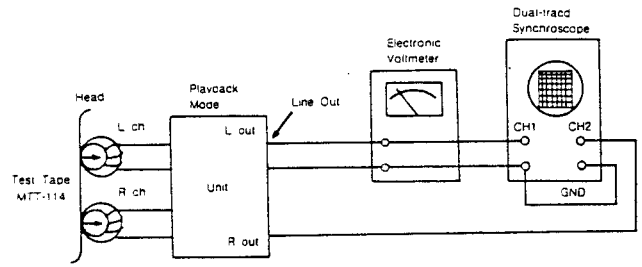



Figure 3. Azimuth Adjustment Connection Diagram

### 2. MOTOR SPEED ADJUSTMENT

| Item | Deck Mode | Test Tape | Test Point | Adjust for | Adjustment | Remark |
|---|---|---|---|---|---|---|
| HI-SPEED | Playback | MTT-111 | LINE OUT | A: VR211<br>B: VR221 | 6kHz±100Hz | TP102 Short circuit<br>FORWARD, REVERSE confirm |
| NORMAL SPEED | Playback | MTT-111 | LINE OUT | A: VR210<br>B: VR220 | 3kHz±50Hz | After adjusting in forward, confirm the specification in reverse mode. |

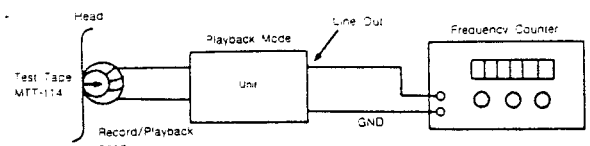



Figure 4. Motor Speed Adjustment Connection Diagram

### 3. PLAYBACK LEVEL ADJUSTMENT

| Deck Mode | Test Tape | Test Point | Adjust for | Adjustment | Remark |
|---|---|---|---|---|---|
| Playback | MTT-150 | Dolby Point (TP201) | A: VR401, VR451<br>B: VR402, VR452 | 548mV±1dB | After adjusting in forward, confirm the specification in reverse mode. |

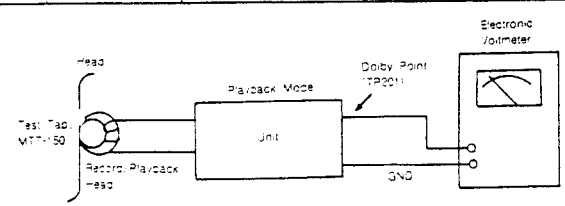



Figure 5. Playback Level Adjustment Connection Diagram

## 4. RECORD BIAS ADJUSTMENT

| Deck Mode | Test Tape | Test Point | Adjust for | Adjustment |
|---|---|---|---|---|
| Rec/Pause | MTT-5561 | ERASE HEAD WIRE (PN402) | L490 | 105kHz±0.5kHz |

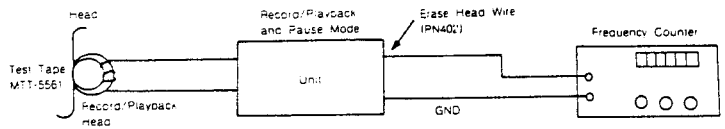



Figure 6. Record Bias Adjustment Connection Diagram

## 5. RECORD LEVEL ADJUSTMENT

| Deck Mode | Test Tape | Test Point | Adjust for | Input | Adjustment | Remark |
|---|---|---|---|---|---|---|
| R/P→PB | MTT-5511<br>MTT-5561 | Dolby Point (TP201) | VR403<br>VR453 | 400Hz | 245mV±1dB | • Dolby OFF<br>• After adjusting in MTT-5511, confirm in MTT-5561 |

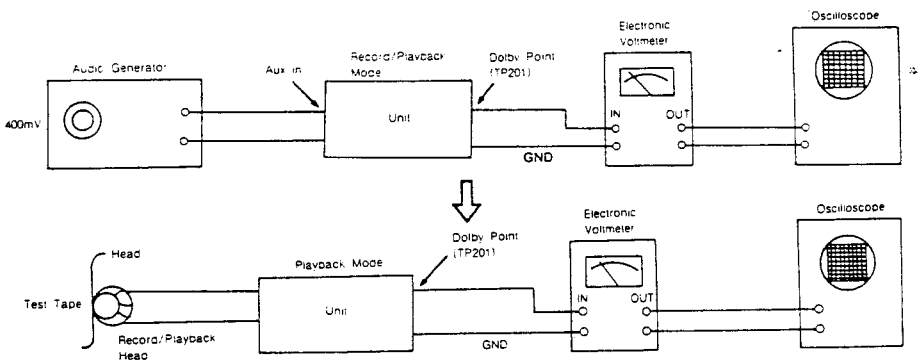



Figure 7. Record Level Adjustment Connection Diagram





## 6. BIAS ADJUSTMENT

| Deck Mode | Test Tape | Test Point | Adjust for | Input | Adjustment | Remark |
|---|---|---|---|---|---|---|
| R/P→PB | MTT-5511<br>MTT-5561 | Dolby Point (TP201) | VR404<br>VR454 | 548mV-25dB (on AUX) | Adjust for the response of 1kHz/10kHz flat. | After adjusting in MTT-5511, confirm in MTT-5561. |

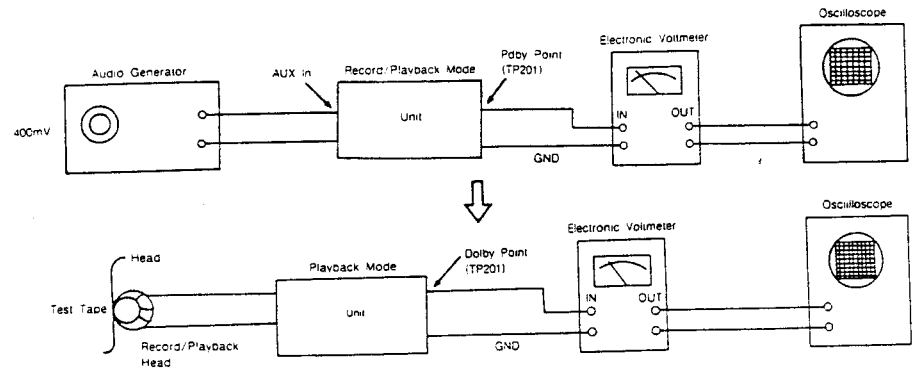


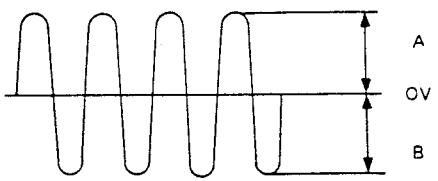

Figure 8. Bias Adjustment Connection Diagram

# CDP ADJUSTMENTS

1. Before adjusting, preset adjustment potentiometers VR801, VR802, VR803 and VR804 center.

## 2. TRACKING BALANCE ADJUSTMENT

1) Connect the oscilloscope to TP802 (Pin ④ - TEO) and TP802 (Pin ②-Vref)
2) Playback the 12th selection of the test disc (YEDS-18).
3) Minimize volume VR804.
4) Adjust VR802 so that the amplitude above and below the zero DC line becomes equal (amplitude A=B).
5) Preset adjustment potentiometer VR804 center again.




A = B

## 3. FOCUS OFFSET ADJUSTMENT (You have to use 10:1 prove)

1) Connect oscilloscope to TP801 (RF, Vref).
2) Put a test disc into unit and playback the unit.
3) Adjust VR801 so that eye pattern becomes clear and waveform (Vp-p) is maximum.
4) Stop mode.
5) Connect oscilloscope to TP802 (Pin ① -FEO) and TP802 (Pin ② -Vref).
6) Confirm the oscilloscope reading
   i) Less than 200mV ———— OK
   ii) More than 200mV———— readjust VR801 200mV.

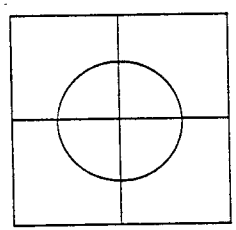




## 4. FOCUS, TRACKING GAIN ADJUSTMENT (with Jig)

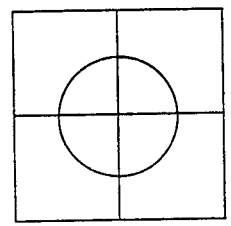
1) Connect a gain jig to TP802.
2) After setting a frequency of audio frequency OSC to 700Hz and voltage to 4Vrms, connect to gain jig.
3) Set the jig with oscilloscope to below.
   i) TIME/DIV.: X-Y Mode
   ii) CH1: 20mV/DIV.: AC Mode
   iii) CH2: 2V/DIV.: AC Mode
4) After the test disc (YEDS-18) put unit into play mode on track, adjust like below.

**(A) FOCUS GAIN ADJUSTMENT**
Place SW2 to F, adjust VR803.



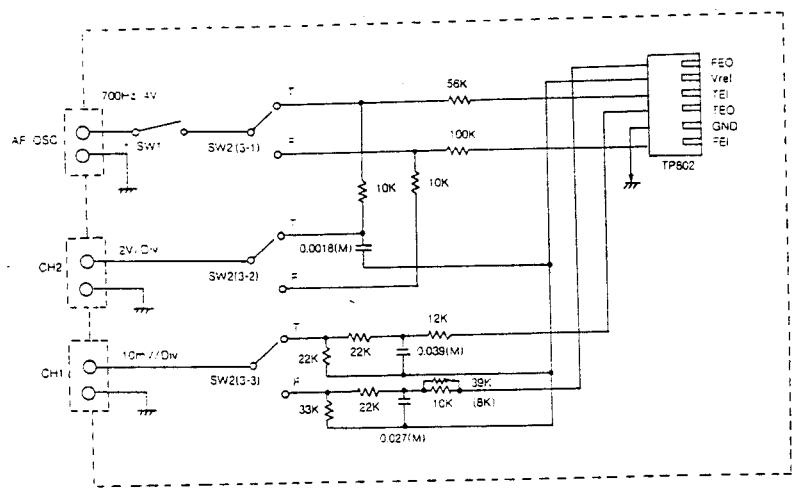
SCOPE waveform

**(B) TRACKING GAIN ADJUSTMENT**
Place SW2 to T, adjust VR804.



SCOPE waveform

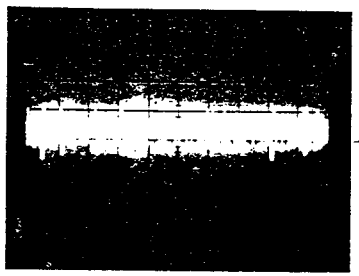
### * FOCUS & TRACKING GAIN ADJUSTMENT JIG




NOTE) This jig is not serviceable part.

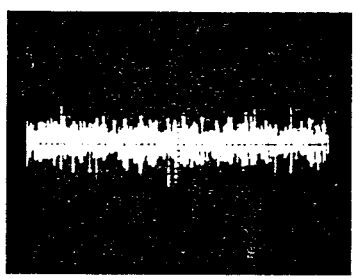
## 5. FOCUS GAIN ADJUSTMENT (without Jig)

1) Connect a oscilloscope to PN802 Pin ④ (FAC ⊖) and PN802 Pin ① (FAC ⊖)
2) Insert test disc (YEDS-18) and put unit into play mode on track.
3) Adjust VR803 so that the waveform on the oscilloscope becomes like below.




## 6. TRACKING GAIN ADJUSTMENT (without Jig)

1) Connect a oscilloscope to PN802 Pin ② (TAC⊖) and PN802 Pin ③ (TAC ⊖)
2) Insert test disc (YEDS-18) and put unit into play mode on track.
3) Adjust VR804 so that the waveform on the oscilloscope becomes like below.



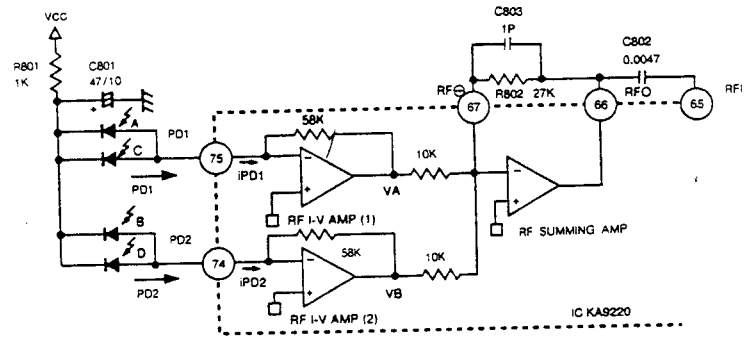





# DESCRIPTION OF FUNCTIONS

## 1. RF AMPLIFIER

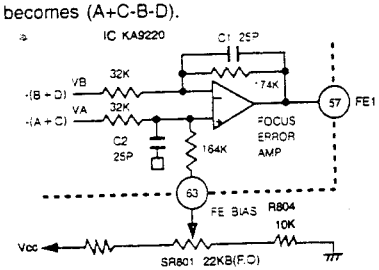
RF 1-V amplifiers (1) and (2) are converted to voltage from the signal current of pin photodiodes connected to PD1 and PD2 through the 58KΩ equivalent resistance. Furthermore, it is added in the RF summing amplifier and (A+B+C+D) is output at RFO. At this pin (RFO), the eye pattern can be checked.



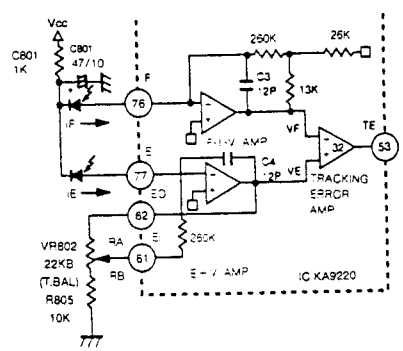

The RF amplifier output voltage (low-frequency) is $V_{RFO}$=2.2 x ($V_A$+$V_B$)=127.6KΩ x (iPD1+iPD2). (at RFO)

## 2. FOCUS ERROR AMPLIFIER

The Focus Error Amplifier is the difference between RF 1-V amplifier (1) output (A+C) and RF 1-V amplifier (2) output (B+D). The output becomes (A+C-B-D).




## 3. TRACKING ERROR AMPLIFIER



E 1-V amplifier and F 1-V amplifier are converted to voltage from the signal current of pin photodiode connected: E and F. The E and F 1-V amplifiers output voltage is,

$V_F = iF \times 403K\Omega$, and

$V_E = iE \times 260K\Omega \times R_N/(R_B+22K)+(R_A+260K)$.

The tracking error amplifier is the difference between the E 1-V amplifier output and the F 1-V amplifier output, this output is (E-F).

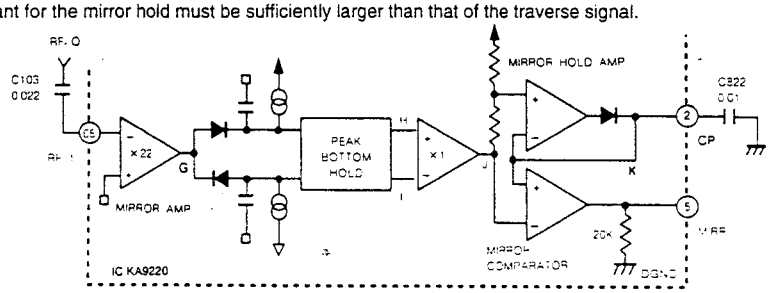
$V_{TE} = (V_E-V_F) \times 3.2$

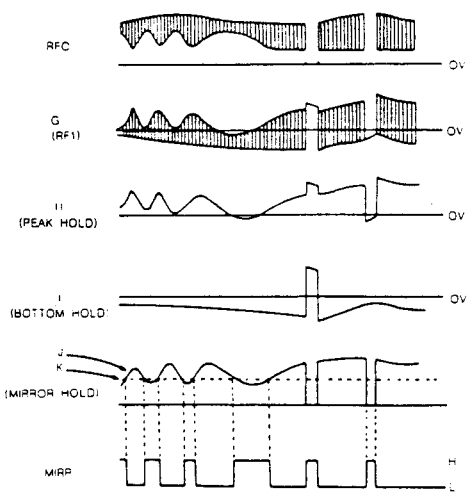
$= (iE-iF) \times 1290K\Omega$

## 4. MIRROR CIRCUIT

This circuit, after amplifying the RFI signal, holds its bottom and peak. The peak hold is done with a time constant able to track down a 30kHz traverse and the bottom hold. This is done with a time constant able to track down envelope fluctuations in the revolving cycle.

With the differential amplification of these peak and bottom hold signals, H and I, the envelope signal J(demodulated to DC) is obtained. Two-thirds of the peak value of this signal J is held with a large time constant for the signal K. When K is compared with J, a mirror output is obtained. That is, the mirror output gives "L" on the disc track, "H" between tracks (mirror section) and also "H" in the defect detection. The time constant for the mirror hold must be sufficiently larger than that of the traverse signal.





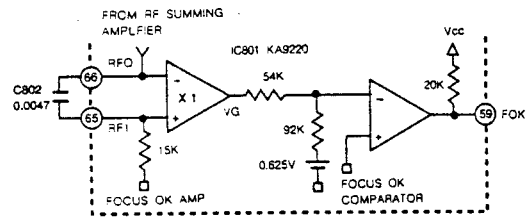



## 5. FOCUS OK CIRCUIT

The focus OK circuit generates a timing window to lock on the focus servo from a focus search status. Pin ㊺ will get the HPF (High Pass Filter) output from an RF signal from Pin ㊻ -the LPF (Low Pass Filter) output (opposit phase) for the focus OK amplifier output.

The focus OK amplifier output is inverted when $V_{RFI}-V_{RFO} \fallingdotseq -0.37V$.

C802 is for determining the time constants of HPF in the EFM comparator and mirror circuits as well as LPF in the focus OK amplifier. When 0.0022μF is selected for C802, fc (cut-off frequency)=1kHz, prevents the block error rate from degenerating as a damaged RF envelope results from the scratched disc, etc.

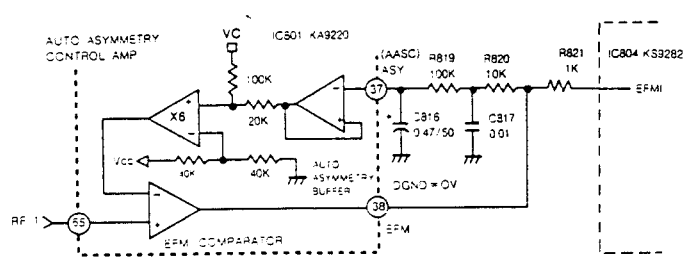



## 6. EFM COMPARATOR

The EFM comparator changes RF signal into a binary value. As the asymmetry generated due to variations in disc manufacturing cannot be eliminated by the AC coupling alone, the reference voltage of EFM comparator is controlled utilizing the fact that the generation probability of 1, 0 is 50% each in the binary EFM signals.

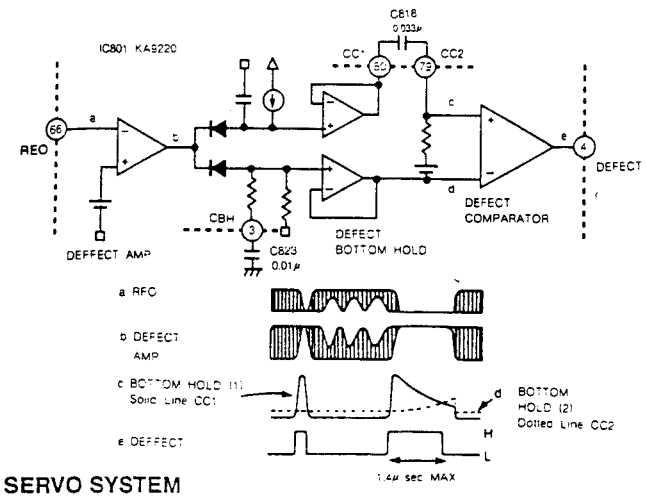
As this comparator is a current SW type, each of the H and L levels does not equal the power supply voltage, requiring feedback through a CMOS buffer.

R819, R820, C816 and C817 form a LPF to obtain (Vcc+DGND)/2V. When fc (out-off frequency) is made more than 500Hz, the EFM low-frequency component leaks dably, degenerating the block error rate.



## 7. DEFECT CIRCUIT

The RFI signal bottom, after being inverted, is held with two time constants, one long and one short. The short time-constant bottom hold is done for a disc mirror defect more than 0.1m sec. The long time-constant bottom hold is done with the mirror level prior to the defect. By differentiating this with a capacitor coupling and shifting the level, both signals are compared to generate the mirror defect detection signal.



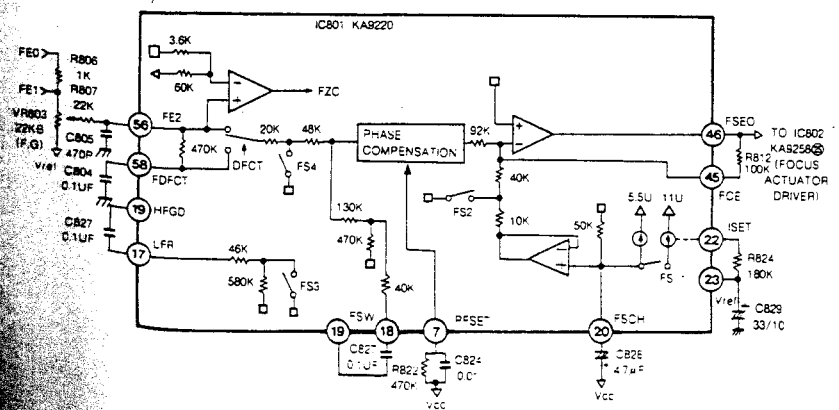

## 8. FOCUS SERVO SYSTEM

The below is a block diagram of the focus servo system. When FS3 is switched on, the high frequency gain can be reduced by forming a low frequency time constant through a capacitor connected across pins ⑰ and ⑱ and the internal resistor.

The capacitor across the pin ⑬ and GND has a time constant to raise the low frequency usually playback condition. The peak frequency of the focus phase compensation is inversely proportional to the resistor connected to pin ⑦ (about 1.2kHz when the resistor is 470KΩ).

The focus search peak becomes about ±1.1 Vp-p with the above constant. The peak is inversely proportional to the resistor connected across the pins ㉒ and ㉓. However, when this resistor is varied, the cycles of track jump and sled kick also vary.

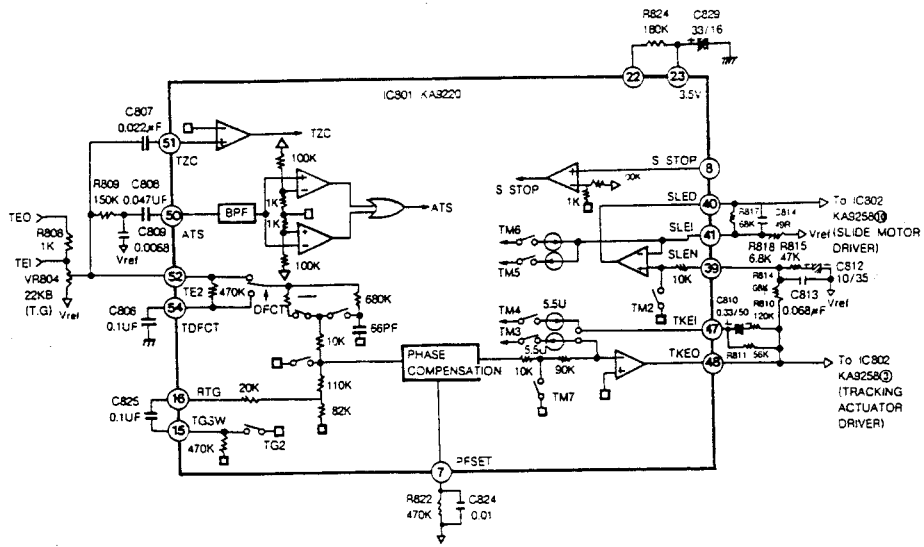
The FZC comparator invert inout is set to 2% of the difference between the reference voltage Vcc and (Pin 1):2% x (Vcc-VC).








## 9. TRACKING SERVO SYSTEM




The above is a block diagram of the tracking sled servo system.

The capacitor across pins ⑮ and ⑯ has a time constant to lower the high frequency when TG2 is switched off. The tracking phase compensation peak frequency is inversely proportional to the resistor connected to pin ⑦ (about 1.2kHz when the resistor is 470KΩ).

For a tracking jump in the FWD or REV direction, TM3 and TM4 are set to ON. At this time, the peak voltage fed to the tracking coil is determined by the TM3 and TM4 current values and the feedback resistor from pin ㊶. That is:

Track jump peak voltage = TM3(TM4) current value x feedback resistor value

The FWD or REV sled kick is done by setting TM5 or TM6 to ON. At this time, the peak voltage added to the sled motor is determined by the TM5 or TM6 current value and the feedback resistor from pin ㊶.

Sled jump peak voltage = TM5 (TM6) current value x feedback resistor value

Each SW current value is determined by the resistor connected to pins ㉒ and ㉓.

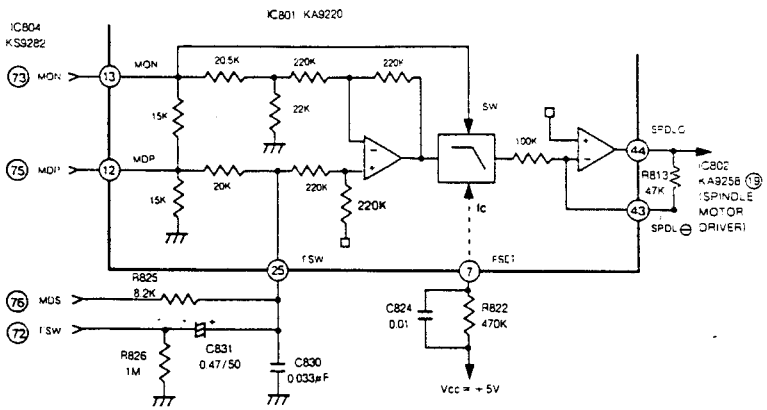
When the resistor is at about 120KΩ.

TM3 or TM4 is ±11μA and TM5 or TM6 is ±22μA.

This current value is almost inversely proprotional to the resistor, variable within a range of about 5 to 40μA for TM3.

S STOP is the ON/OFF detection signal for the limit SW of the sled motor's innermost circumference.

## 10.SPINDLE SERVO AND LPF

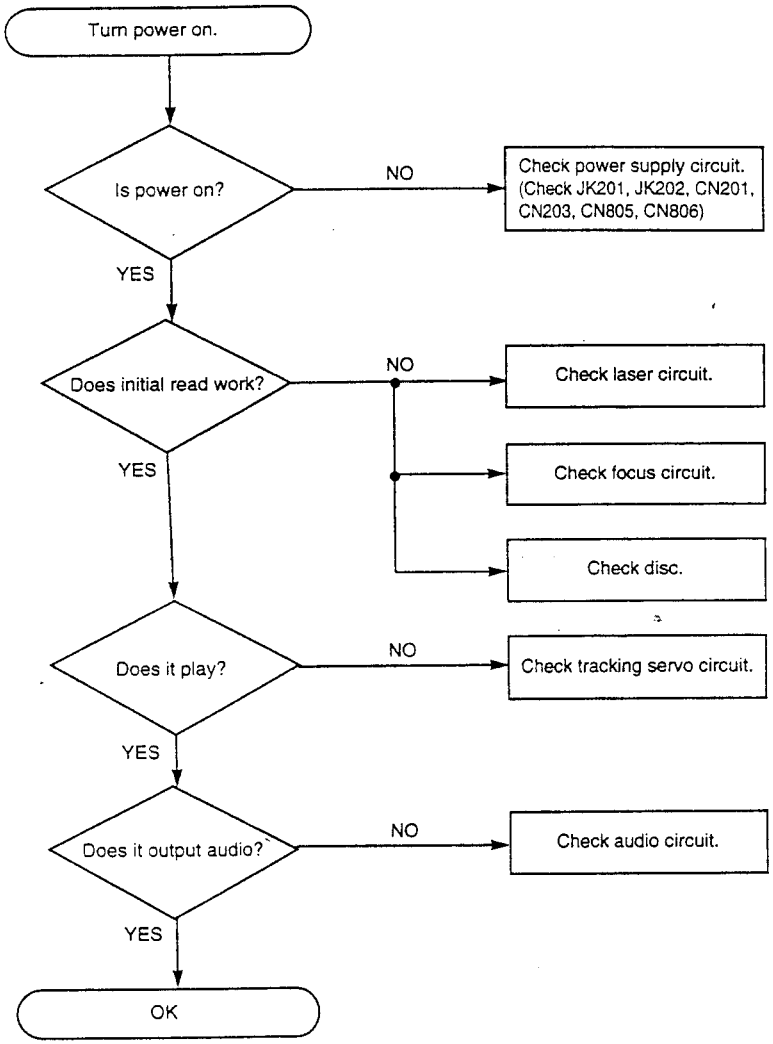



The 200Hz LPF is formed with 0.033F and 10KΩ connected to pin ㉕ and the secondary LPF is formed with the built-in LPF (fc up to 200Hz with 470KΩ for pin ⑦), and the carrier component of the CLV servo error signals MDS and MDP is eliminated.
In the CLV-S mode, FSW becomes L and the pin ㉕ LPF fc lowers, strengthening the filter further. With the pin ⑦ resistor connected to Vcc, fc does not vary with power supply voltage fluctuations.

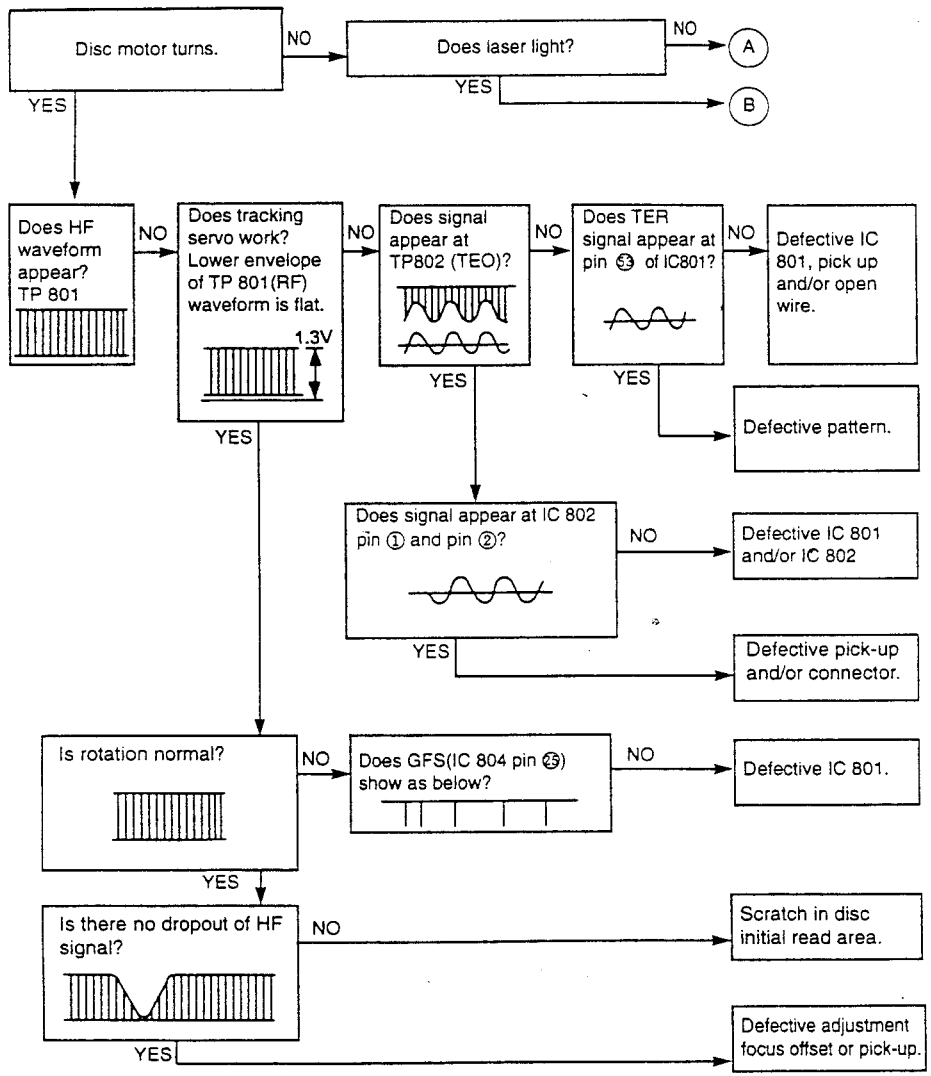




# TROUBLESHOOTING

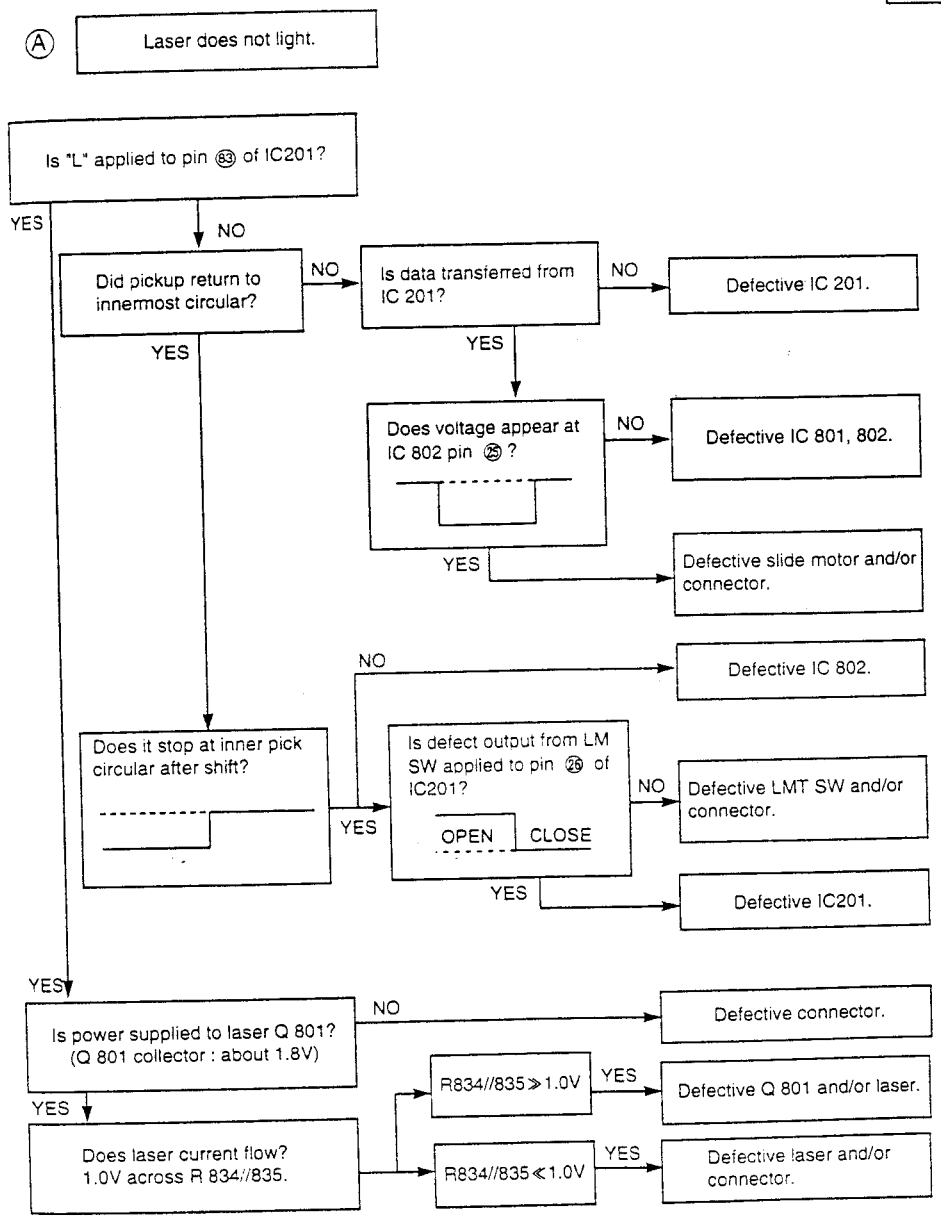


Fails to initial read







Ⓑ Laser lights.

Does lens move up/down?
NO → Does IC 802 output focus search signal?
IC801 pin ㉕ (FEO)
NO → Defective IC 801 & C828.
YES

YES → Is focus search signal applied to pin ㉖, ㉗ of IC 802?
NO → Defective IC 802.
YES → Open activator and/or connector.

Confirm initial read with disc
Does TP 801 HF signal appear even in low level?
NO → Open connector and/or defective IC 801.
YES

Is laser output adjustment correct?
NO → Incorrect turntable height. Degraded laser diode.
YES

Does FOK (focus ok) signal appear? (TP 801 HF, REF 0.4V)
NO → Defective IC 801.
YES

Ⓒ





Ⓒ
YES

Does FER signal appear? IC 801 ㊲ pin
NO → Defective IC 801 Open pick diode.
YES

Does FZC signal (focus zero cross signal) appear at pin ㉝ of IC 801, SENS terminal?
FER
SENSE
NO → Defective IC 801. (Focus servo turns ON by FZC signal of FOK mod.)
YES

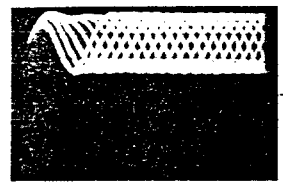
Does MON signal appear at pin ㊸ of IC 804?
Does MDP signal appear at pin ㊸ of IC 804?
NO → Defective pattern between IC201.
YES

Is drive voltage applied to disk motor?
Start mode.
NO → Defective IC 801,802 and/or peripheral circuit.
YES

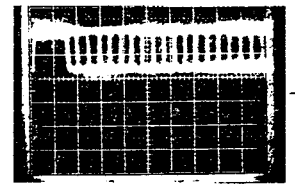
Defective disk motor and/or insulation.

# WAVEFORMS OF MAJOR CHECK POINT

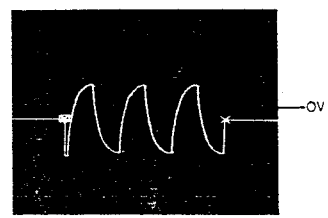
1. HF signal (RF signal) waveform (test point TP801) during normal play



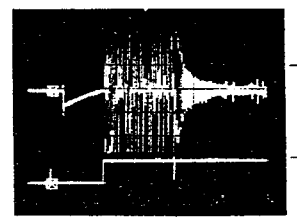

2. EFM signal (pin NO. ㊳ of IC801 waveform during normal play




3. Focus coil drive waveform (pin NO. ㉖, ㉗ of IC802)
   - When focus search failed or there is no disc on the tray



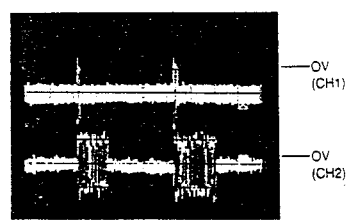

- Focus coil drive waveform (pin NO. ㉖, ㉗ of IC802) and FOK (pin NO. ㊾ of IC801)
  When focus search is accomplished




CH1: FOCUS COIL DRIVE SIGNAL
2V/Div.
CH2: FOK

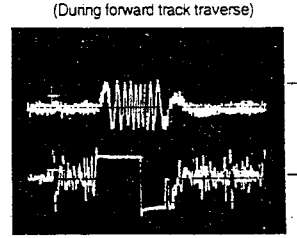
4. Tracking coil drive waveform (pin NO. ③ of IC802) and TEO during track traverse

(1) When time division is 20mS/div.



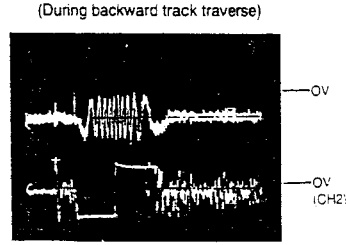

CH1: TEO
1V/Div.
CH2: TRACKING COIL DRIVE SIGNAL
2V/Div.

(2) When time division is 0.5mS/div.
(During forward track traverse)



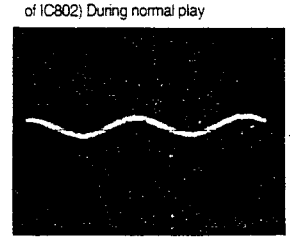

CH1: TEO
1V/Div.
CH2: TRACKING COIL DRIVE SIGNAL
2V/Div.

(3) When time division is 0.5mS/div.
(During backward track traverse)

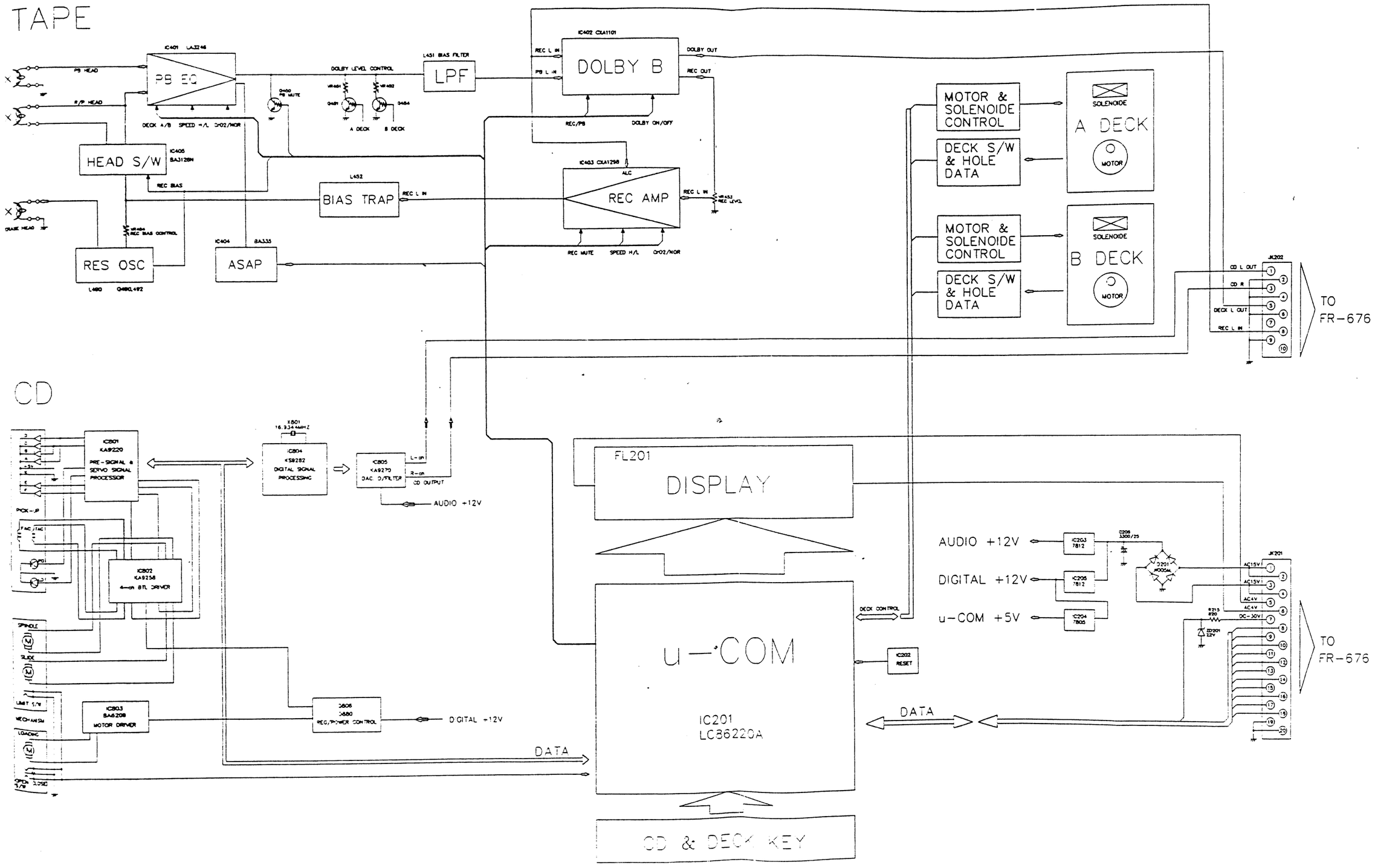



CH1: TEO
1V/Div.
CH2: TRACKING COIL DRIVE SIGNAL
2V/Div.

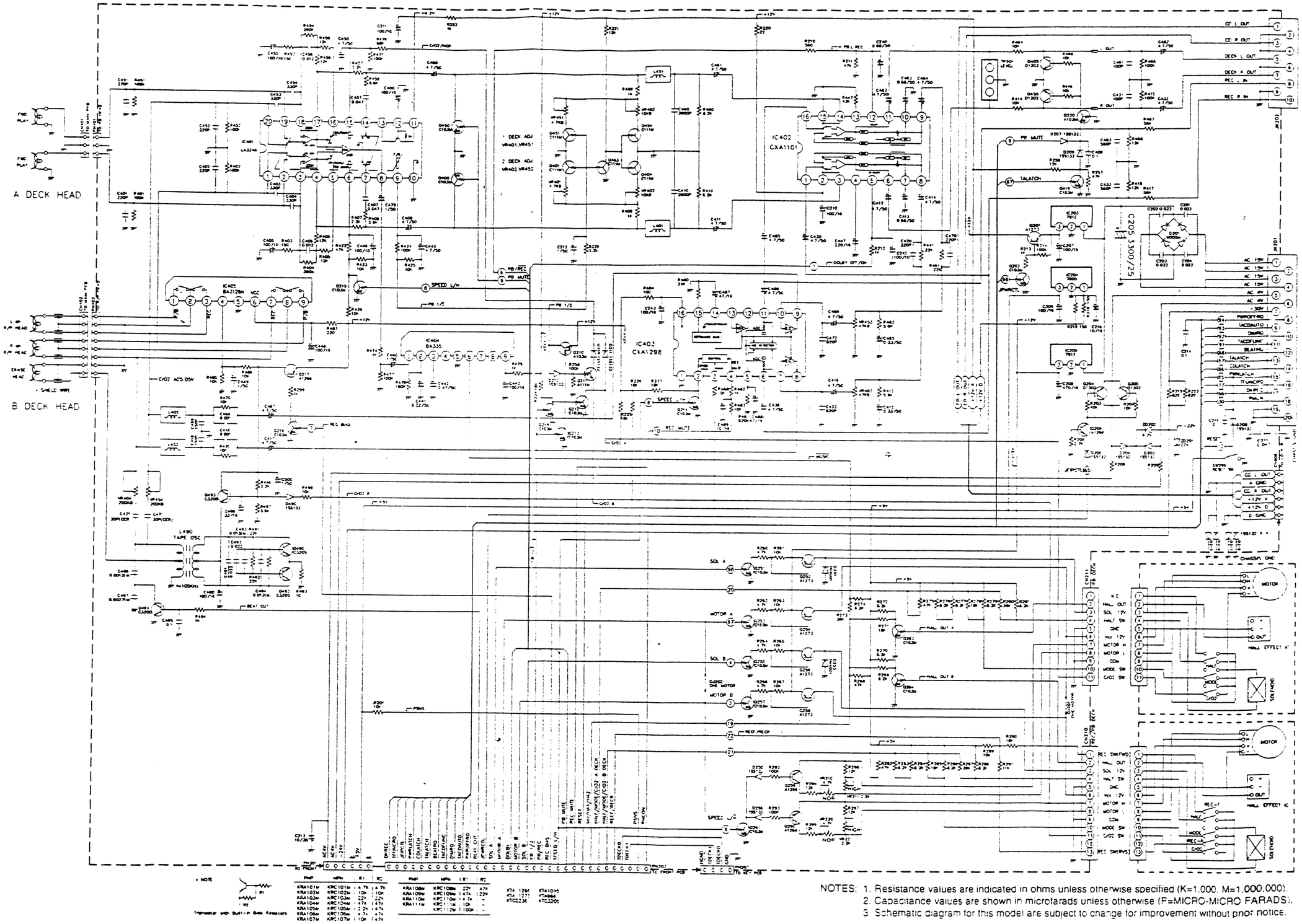
5. Feed motor drive waveform (pin NO. ㉞ of IC802) During normal play



# BLOCK DIAGRAM

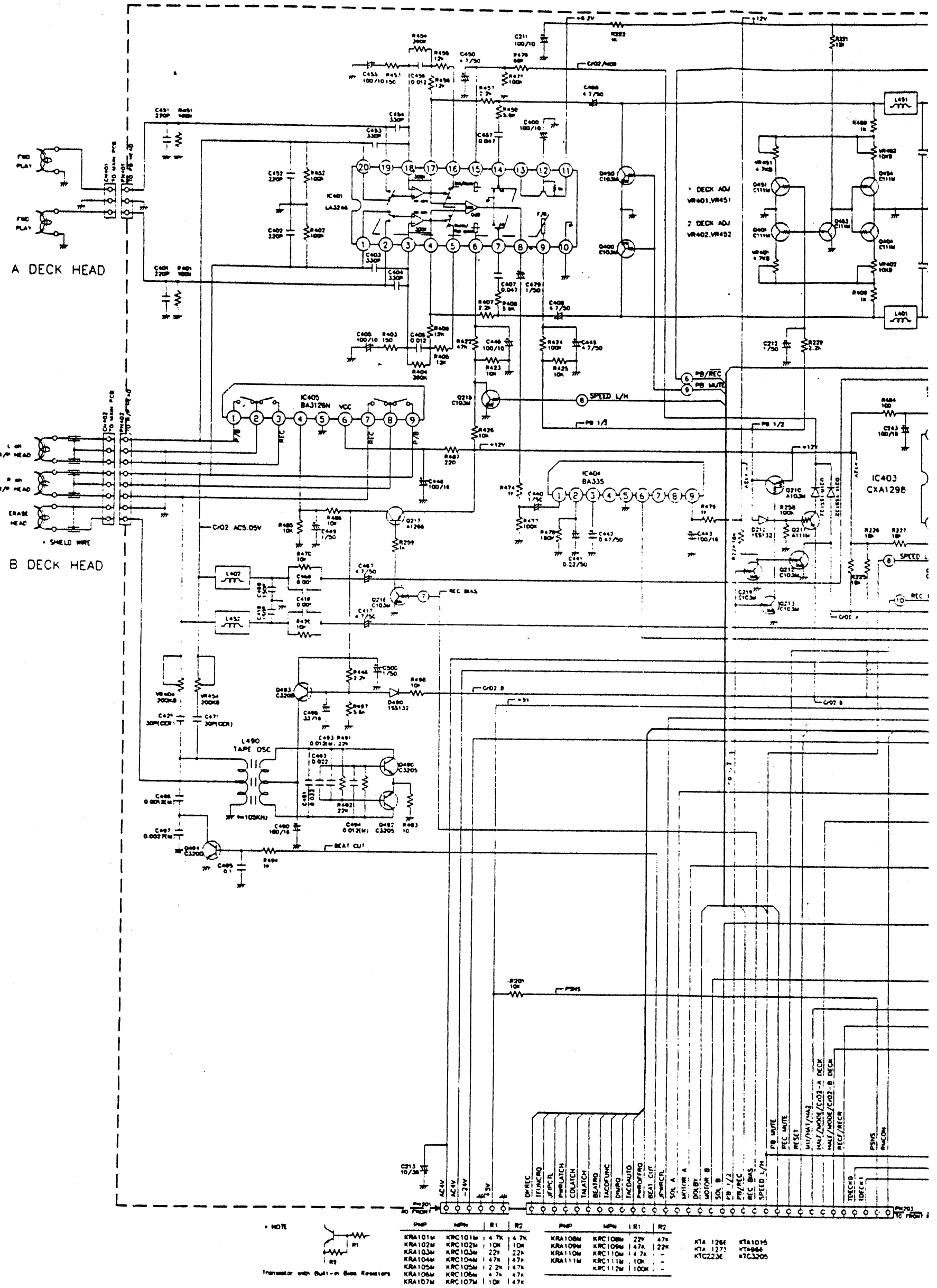


# SCHEMATIC DIAGRAM ■ DECK & POWER CIRCUIT




NOTES: 1. Resistance values are indicated in ohms unless otherwise specified (K=1,000, M=1,000,000).
2. Capacitance values are shown in microfarads unless otherwise (P=MICRO-MICRO FARADS).
3. Schematic diagram for this model are subject to change for improvement without prior notice.

# SCHEMATIC DIAGRAM ■ DECK & POWER CIRCUIT




• NOTE

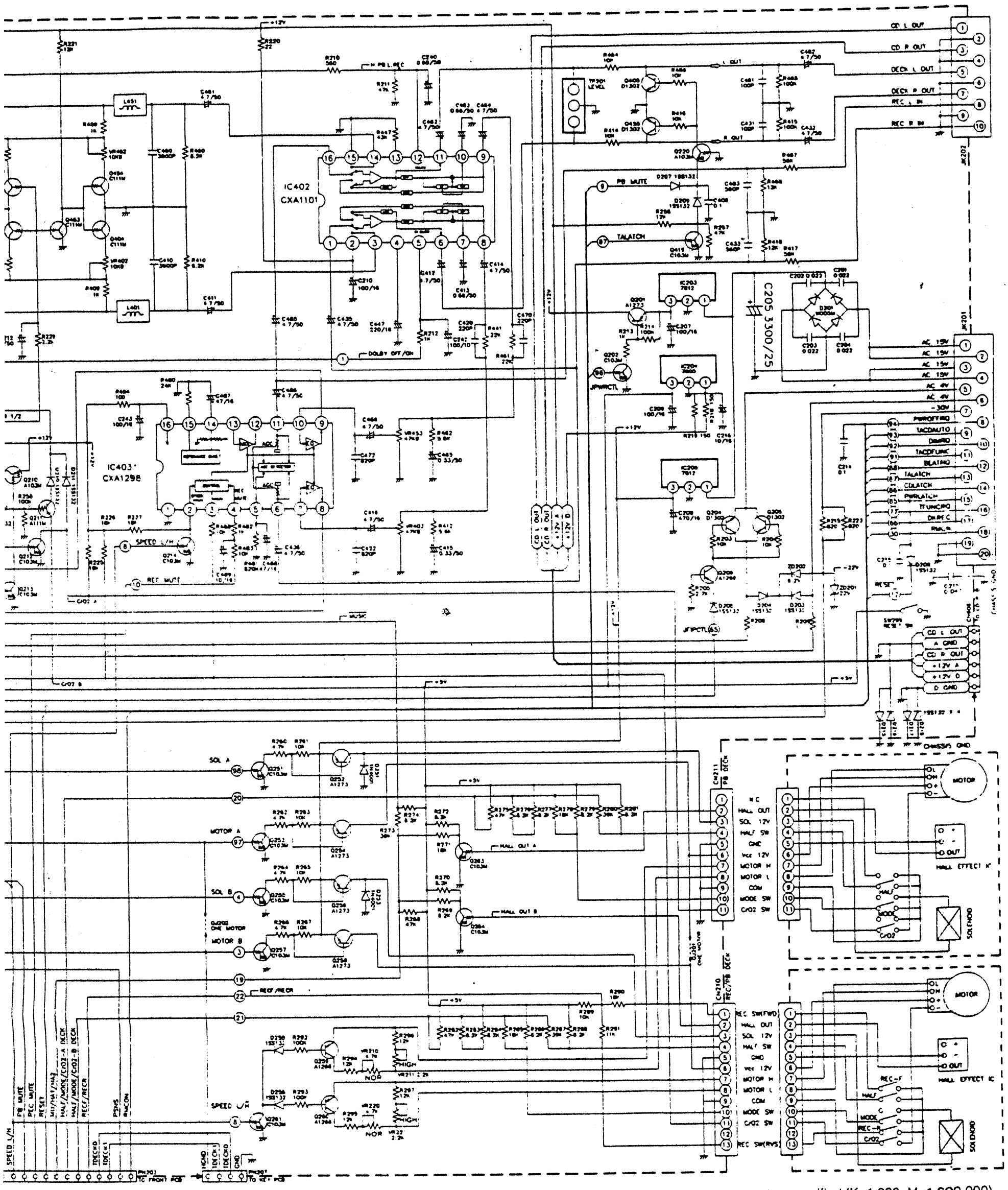



Transistor with Built-in Bias Resistors

| PNP | NPN | R1 | R2 |
|---|---|---|---|
| KRA101M | KRC101M | 4.7K | 4.7K |
| KRA102M | KRC102M | 10K | 10K |
| KRA103M | KRC103M | 22K | 22K |
| KRA104M | KRC104M | 47K | 47K |
| KRA105M | KRC105M | 2.2K | 47K |
| KRA106M | KRC106M | 4.7K | 47K |
| KRA107M | KRC107M | 10K | 47K |

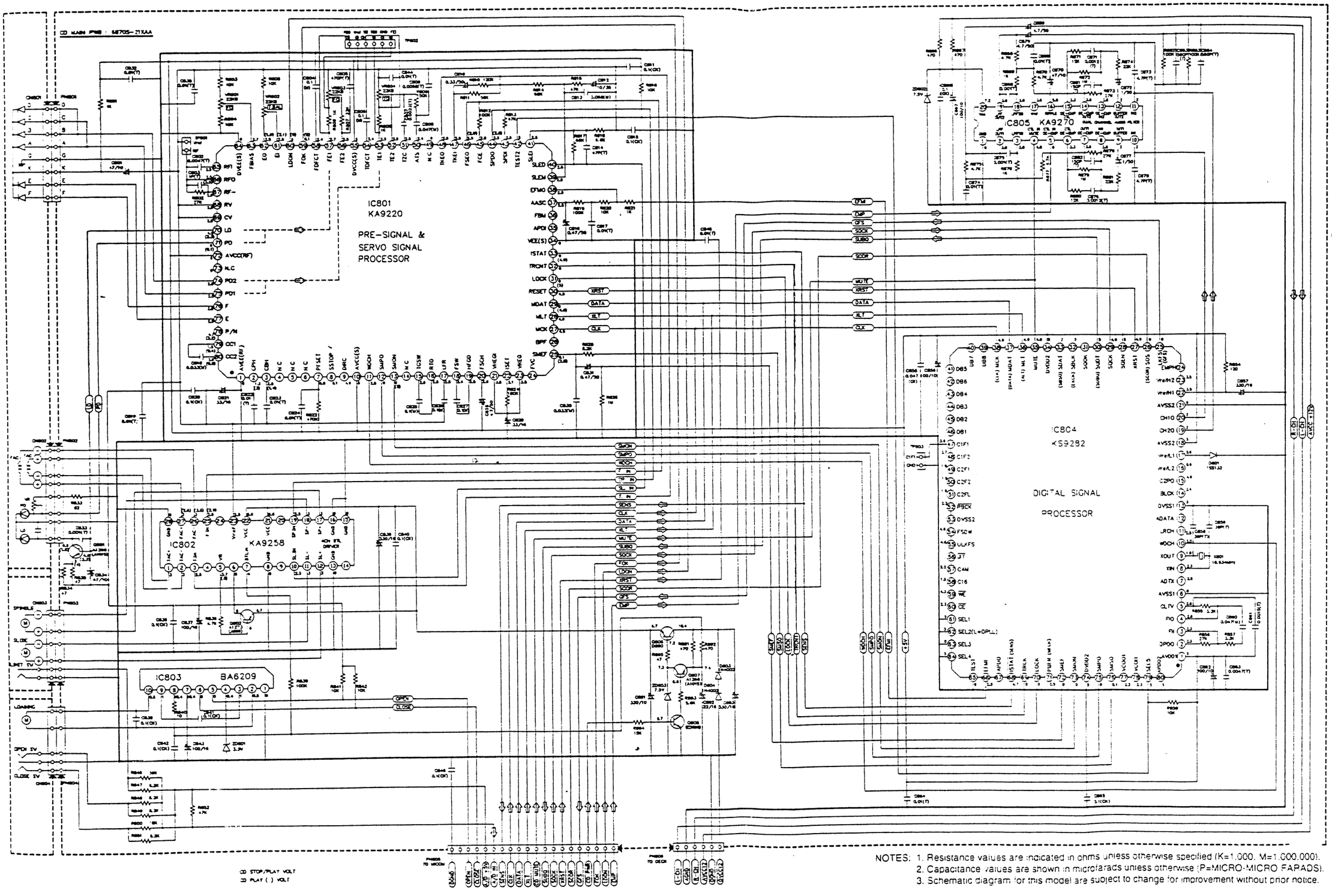
| PNP | NPN | R1 | R2 |
|---|---|---|---|
| KRA108M | KRC108M | 22K | 47K |
| KRA109M | KRC109M | 47K | 22K |
| KRA110M | KRC110M | 4.7K | - - |
| KRA111M | KRC111M | 10K | - - |
| | KRC112M | 100K | - - |

KTA 1266 KTA1015
KTA 1273 KTA966
KTC2236 KTC3205



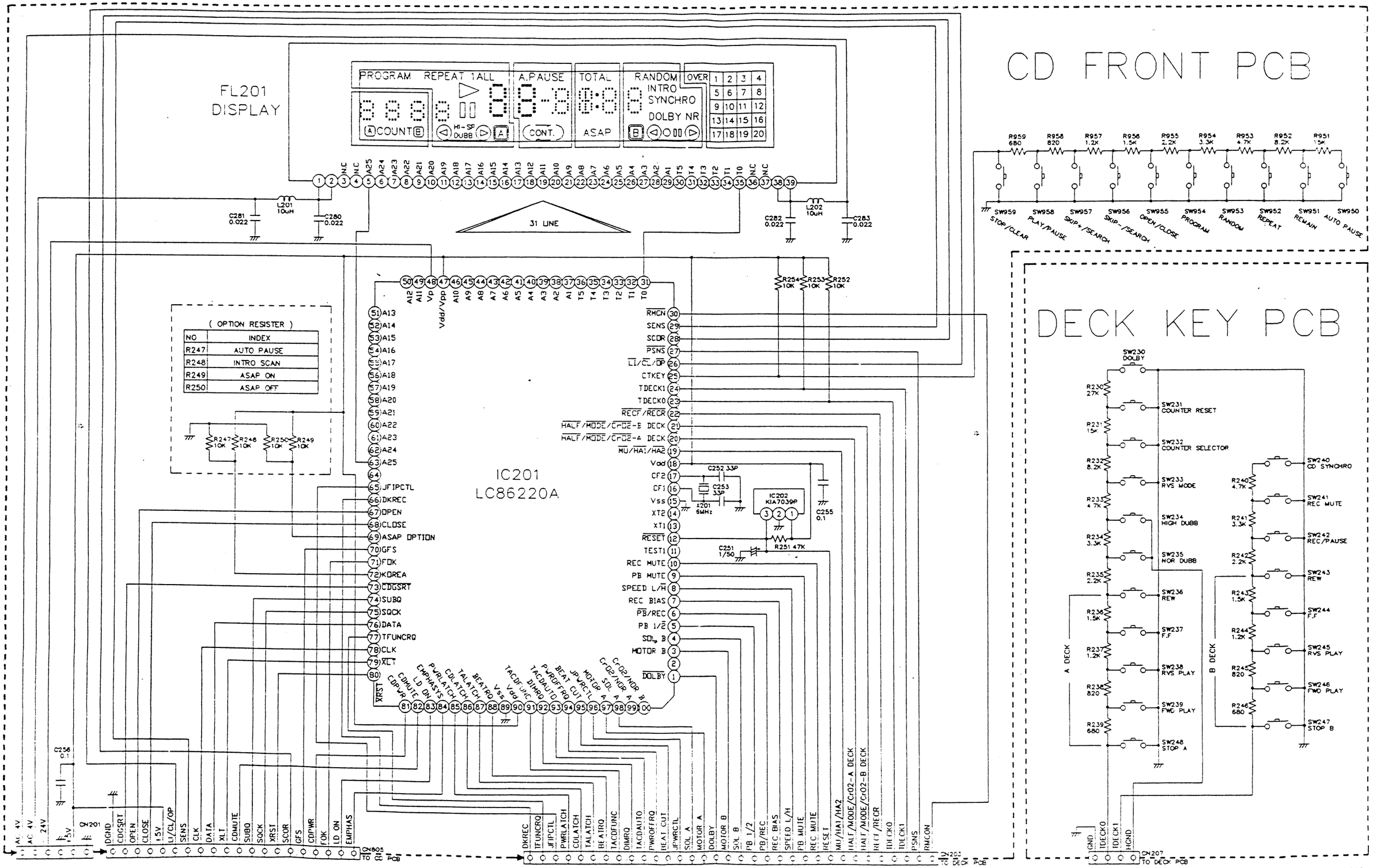

NOTES: 1. Resistance values are indicated in ohms unless otherwise specified (K=1,000. M=1,000,000).
2. Capacitance values are shown in microfarads unless otherwise (P=MICRO-MICRO FARADS).
3. Schematic diagram for this model are subject to change for improvement without prior notice.

## ■ CD MAIN CIRCUIT



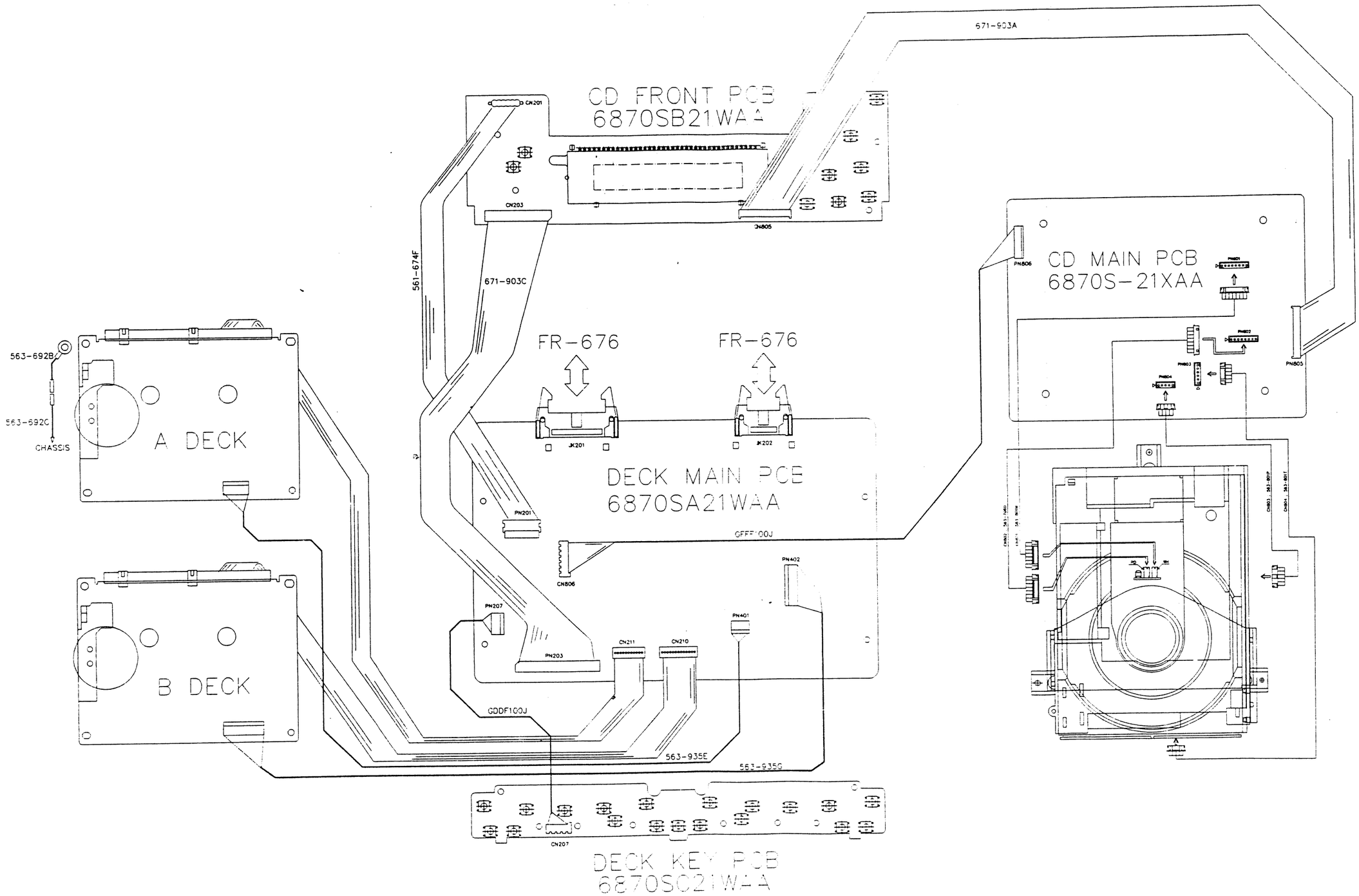

NOTES: 1. Resistance values are indicated in ohms unless otherwise specified (K=1,000, M=1,000,000).
2. Capacitance values are shown in microfarads unless otherwise (P=MICRO-MICRO FARADS).
3. Schematic diagram for this model are subject to change for improvement without prior notice.

## FRONT CIRCUIT



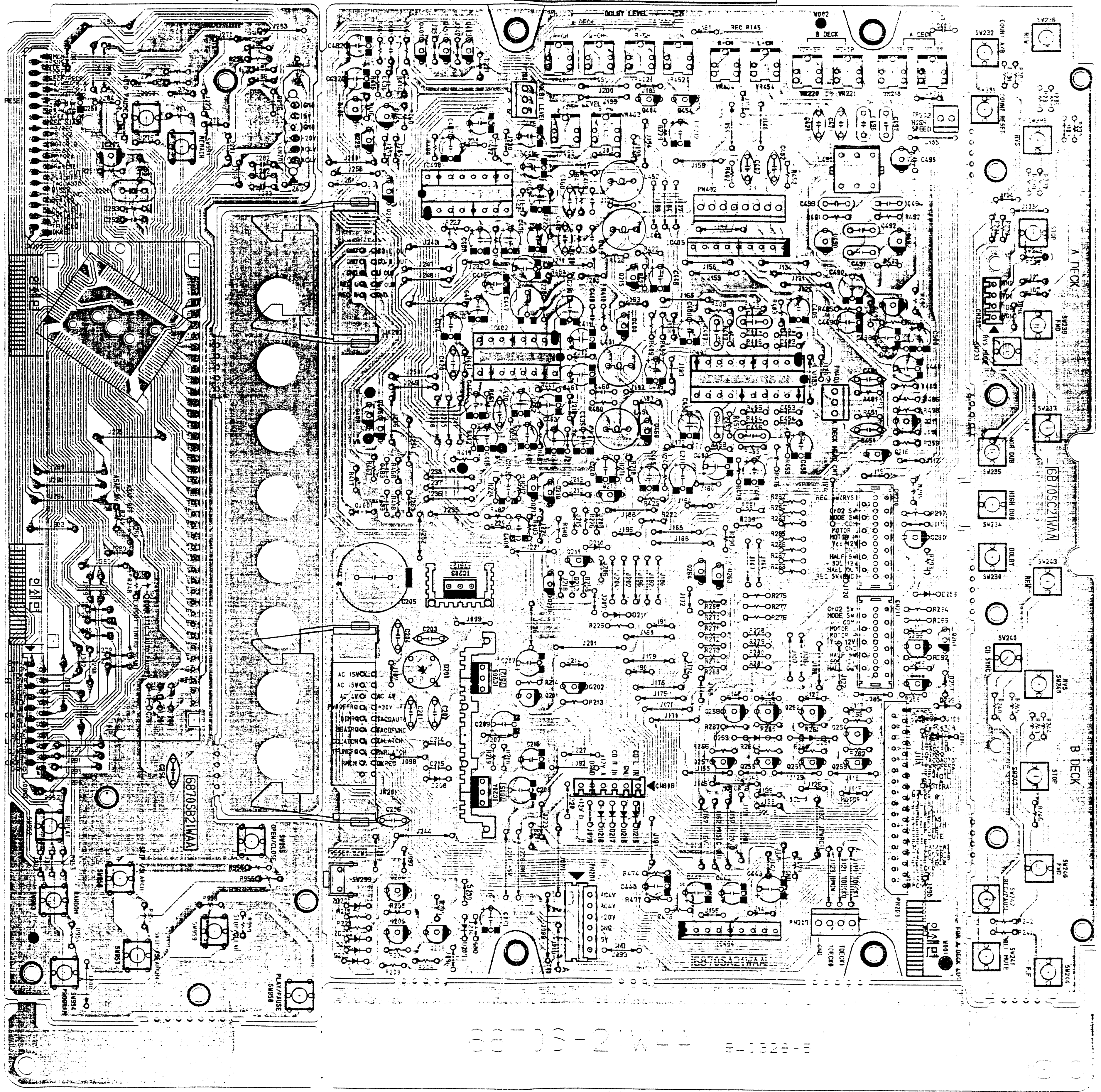

NOTES: 1. Resistance values are indicated in ohms unless otherwise specified (K=1,000, M=1,000,000)
2. Capacitance values are shown in microfarads unless otherwise (P=MICRO-MICRO FARADS).
3. Schematic diagram for this model are subject to change for improvement without prior notice

# WIRING DIAGRAM

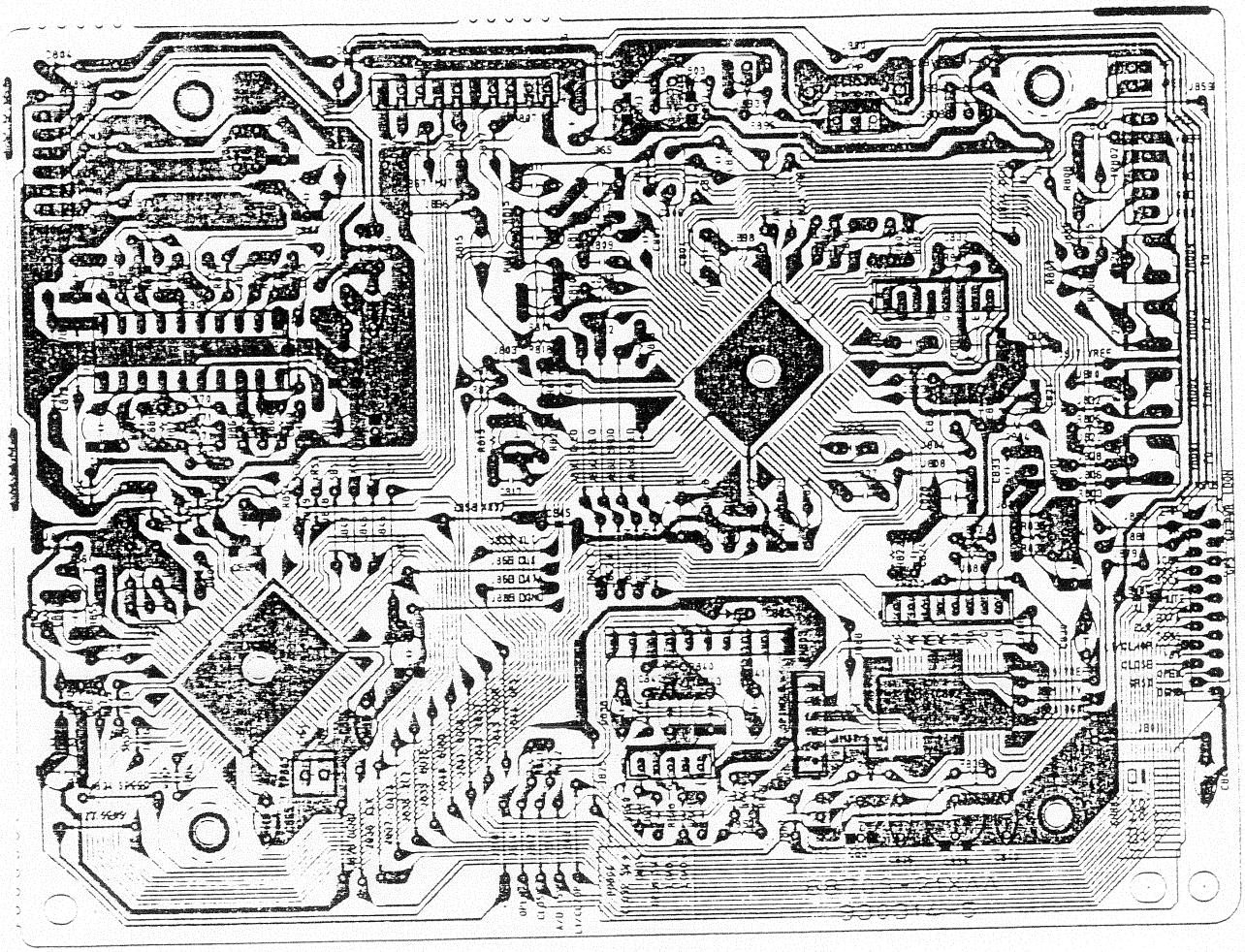


# PCB LAYOUT

## ■ DECK P.C. BOARD (COMPONENTS SIDE)

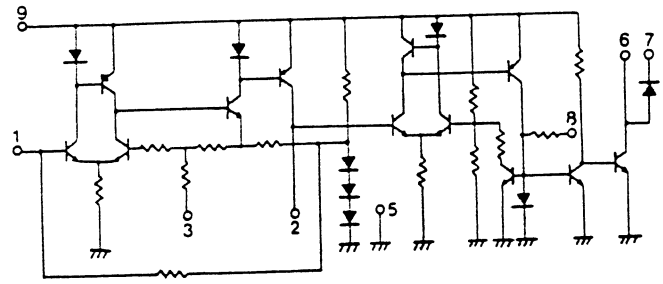


## CD MAIN P.C. BOARD (COMPONENTS SIDE)

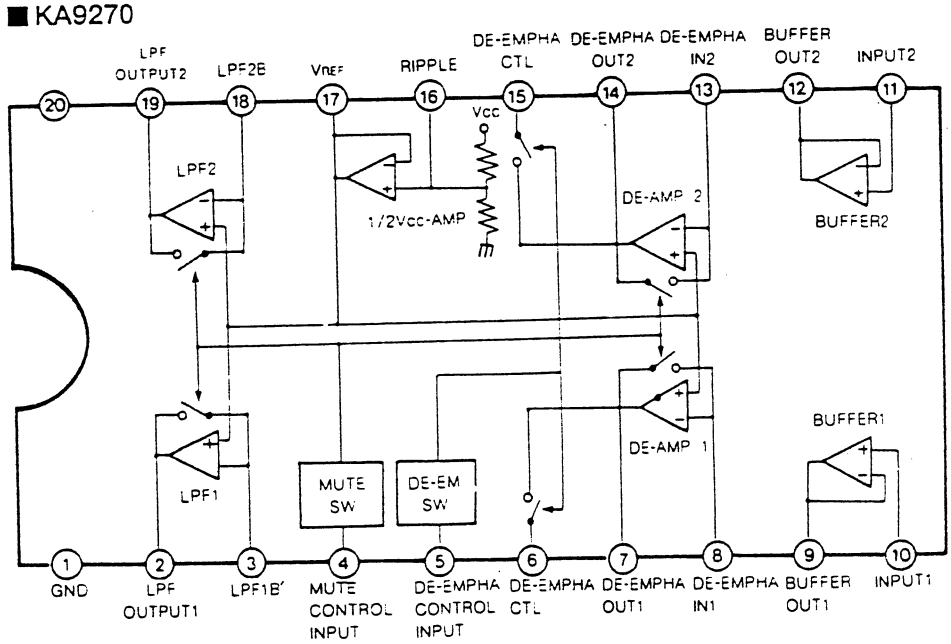


# IC INTERNAL BLOCK DIAGRAM OF ICs

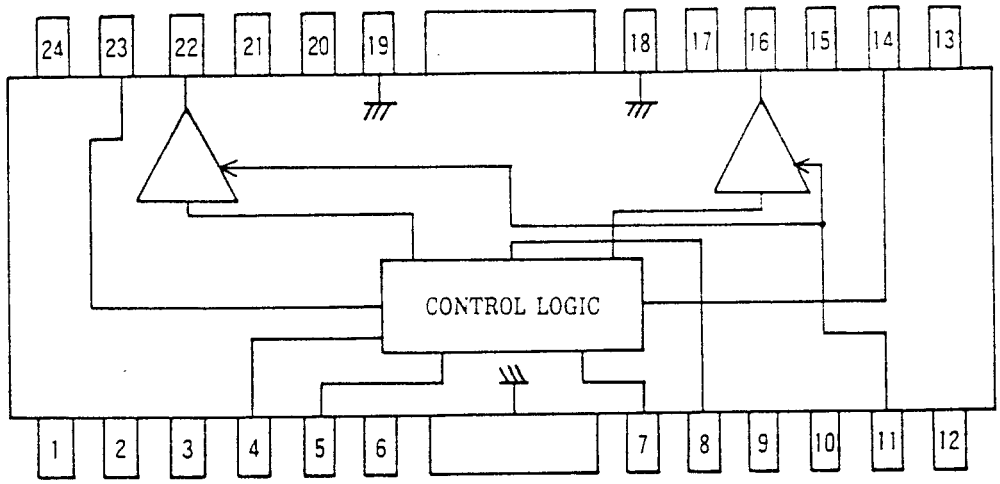
■ BA335




■ KA9270



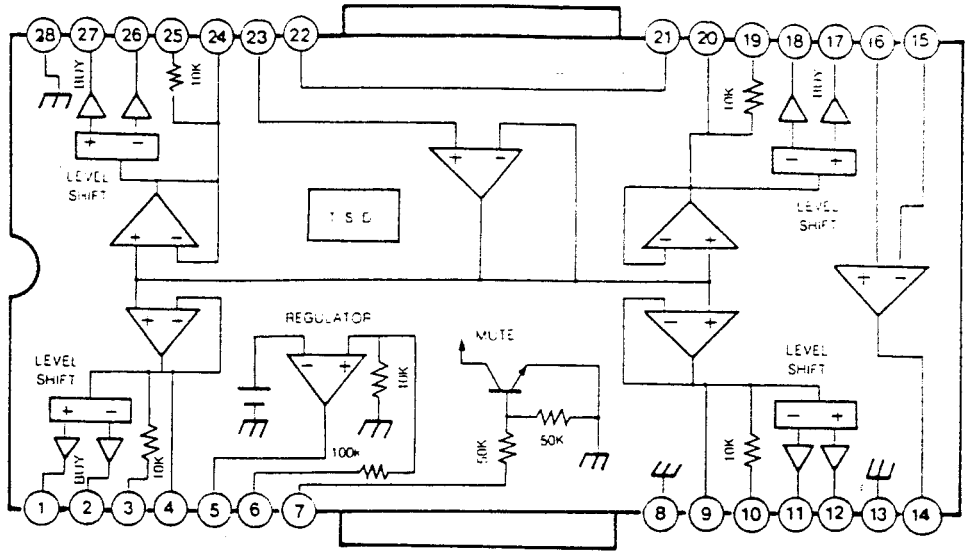
■ BA6209FP




PIN DESCRIPTION

| PIN NO. | PIN NAME | FUNCTION |
|---|---|---|
| 1 | N. C. | N. C. |
| 2 | N. C. | N. C. |
| 3 | N. C. | N. C. |
| 4 | Vref | Output "H" Voltage control |
| 5 | Fin | Input |
| 6 | N. C. | N. C. |
| 7 | Rin | Input |
| 8 | Vcc1 | Supply Voltage |
| 9 | N. C. | N. C. |
| 10 | N. C. | N. C. |
| 11 | Vcc2 | Motor Supply Voltage |
| 12 | N. C. | N. C. |
| 13 | N. C. | N. C. |
| 14 | Vz2 | |
| 15 | N. C. | N. C. |
| 16 | OUT 2 | Output |
| 17 | N. C. | N. C. |
| 18 | GND | GND |
| 19 | GND | GND |
| 20 | N. C. | N. C. |
| 21 | N. C. | N. C. |
| 22 | OUT 1 | Output |
| 23 | Vz1 | |
| 24 | N. C. | N. C. |
| FIN | FIN | GND |

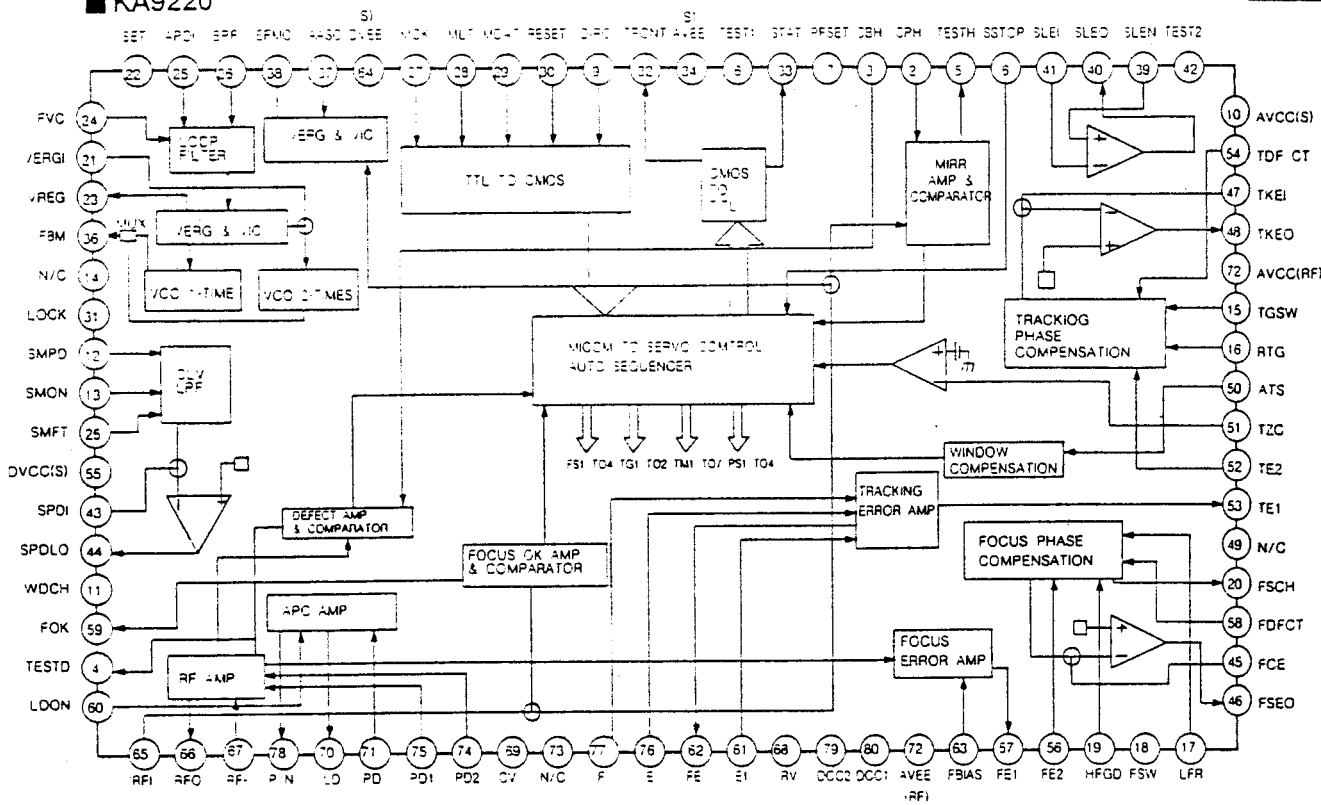
■ KA9258D




PIN DESCRIPTION

| Pin No. | Symbol | I/O | Description |
|---|---|---|---|
| 1 | DO1.1 | O | DRIVE OUTPUT |
| 2 | DO1.2 | O | DRIVE OUTPUT |
| 3 | DI1.1 | I | DRIVE INPUT |
| 4 | DI1.2 | I | DRIVE INPUT |
| 5 | REG | | REGULATOR |
| 6 | REO | O | REGULATOR OUTPUT |
| 7 | MUTE | | MUTE |
| 8 | GND1 | | GROUND |
| 9 | DI2.1 | I | DRIVE INPUT |
| 10 | DI2.2 | I | DRIVE INPUT |
| 11 | DO2.1 | O | DRIVE OUTPUT |
| 12 | DO2.2 | O | DRIVE OUTPUT |
| 13 | GND2 | | GROUND |
| 14 | OPOUT | O | OPAMP OUTPUT |
| 15 | OPIN (−) | I | OPAMP OUTPUT (−) |
| 16 | OPIN (+) | I | OPAMP INPUT (+) |
| 17 | DO3.1 | O | DRIVE OUTPUT |
| 18 | DO3.2 | O | DRIVE OUTPUT |
| 19 | DI3.1 | I | DRIVE INPUT |
| 20 | DI3.2 | I | DRIVE INPUT |
| 21 | VCC1 | | SUPPLY VOLTAGE |
| 22 | VCC2 | | SUPPLY VOLTAGE |
| 23 | VREF | | 2.5V BIAS VOLTAGE |
| 24 | DI4.1 | I | DRIVE INPUT |
| 25 | DI4.2 | I | DRIVE INPUT |
| 26 | DO4.1 | O | DRIVE OUTPUT |
| 27 | DO4.2 | O | DRIVE OUTPUT |
| 28 | GND3 | | GROUND |

■ KA9220

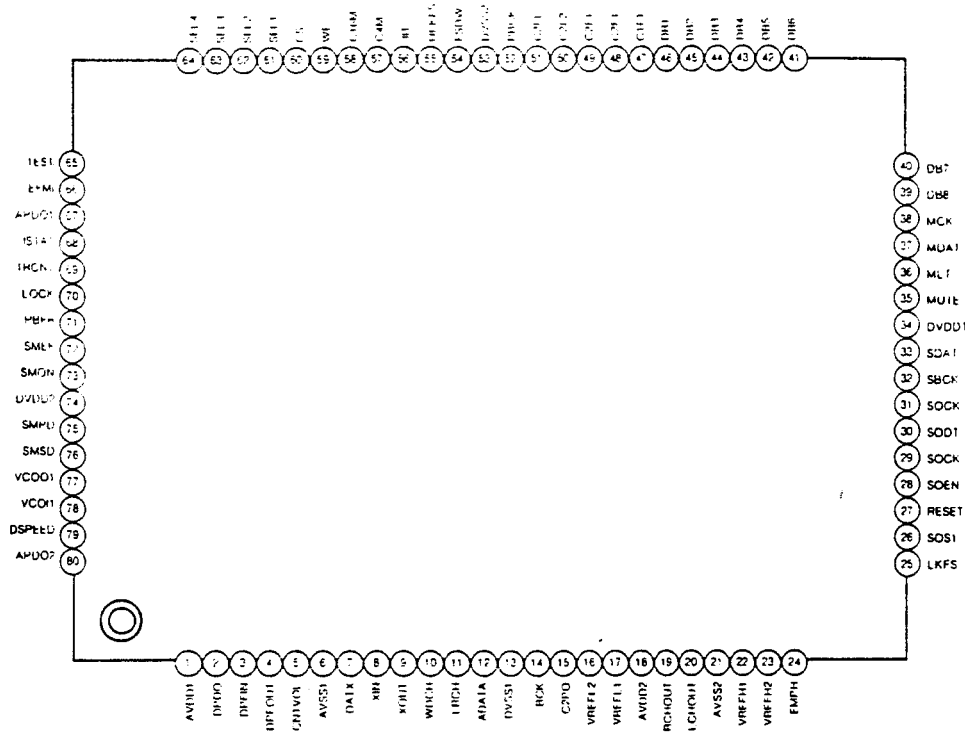

SET APCI BPF EFMO AASO DVEE MCK MLT MDAT RESET DIRC TRONT AVEE TEST1 STAT PFSET CBH CPH TESTH SSTOP SLEI SLEO SLEN TEST2
22 25 26 38 37 64 27 28 29 30 9 32 34 6 33 7 1 2 5 8 41 40 39 42
FVC 24
VERGI 21
VREG 23
FBM 36
N/C 14
LOCK 31
SMPO 12
SMON 13
SMFT 25
DVCC(S) 55
SPDI 43
SPDLO 44
WDCH 11
FOK 59
TESTD 4
LOON 60
LOOP FILTER
VERG & VIC
TTL TO CMOS
CMOS TO TTL
MIRR AMP & COMPARATOR
VCO 1/4 TIME
VCO DIVIDER
MICOM TO SERVO CONTROL AUTO SEQUENCER
CLV LPF
DEFECT AMP & COMPARATOR
FOCUS OK AMP & COMPARATOR
APC AMP
RF AMP
TRACKING ERROR AMP
FOCUS ERROR AMP
TRACKING PHASE COMPENSATION
WINDOW COMPENSATION
FOCUS PHASE COMPENSATION
FS1 TO4 TG1 TO2 TM1 TO7 PS1 TO4
AVCC(S) 10
TDF CT 54
TKEI 47
TKEO 48
AVCC(RF) 72
TGSW 15
RTG 16
ATS 50
TZC 51
TE2 52
TE1 53
N/C 49
FSCH 20
FDFCT 58
FCE 45
FSEO 46
65 66 67 68 70 71 75 74 69 73 77 76 62 61 64 79 80 72 63 57 56 19 18 17
RFI RFO RF- PIN LD PD PD1 PD2 CV N/C F E FE EI RV DCO2 DCO1 AVEE (RF) FBIAS FE1 FE2 HFGD FSW LFR

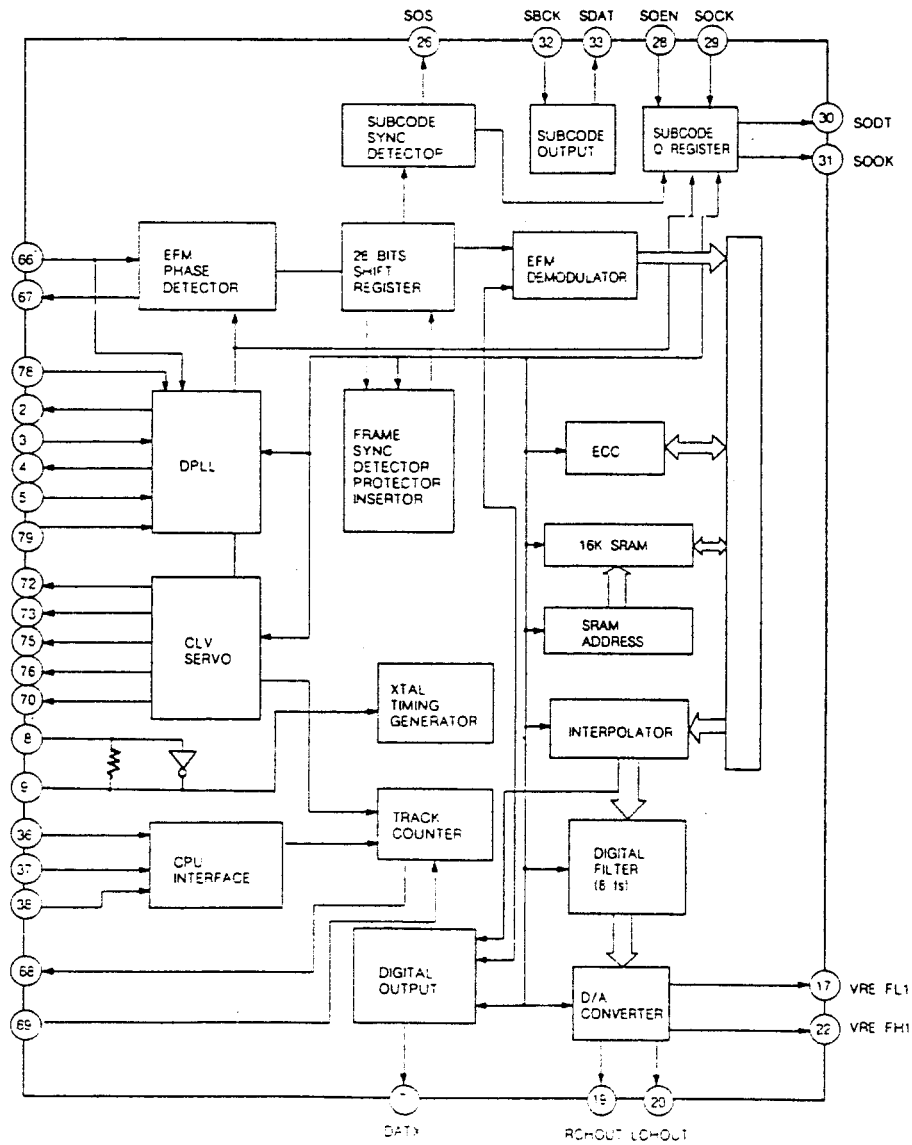
## PIN DESCRIPTION

| Pin No. | System | Description |
|---|---|---|
| 1 | AVEE (P) | Analog negative power supply input pin for RF part |
| 2 | CPH | Capacitor connection pin of mirror hold. |
| 3 | CBH | Capacitor connection pin of defect bottom hold |
| 4 | TESTD | Defect test pin |
| 5 | TESTM | Mirror test pin |
| 6 | Test1 | Input pin for test |
| 7 | PFSET | Peak frequency setting pin for focus, tracking compensation and to (cut off frequency) of CLV LPF. |
| 8 | SSTOP | Check the position pin of pick-up whether inside or not. |
| 9 | DIRC | Direct / Track Jump Control Pin |
| 10 | AVCC (S) | Analog positive power supply input pin for SERVO part. |
| 11 | WDCH | Auto-sequencer clock-input pin (Normal speed=88.2kHz, Double speed=176.4kHz) |
| 12 | SMPO | Connection pin of DSP SMPO |
| 13 | SMON | Connection pin of DSP SMON, spindle servo ON at "H" |
| 14 | N/C | No connection pin |
| 15 | TGSW | Providing time constant to change the high frequency tracking gain |
| 16 | RTG | Capacitor connection pin switch the tracking gain of high frequency |
| 17 | LFR | Capacitor connection pin to perform rising low bandwidth of focus servo loop |
| 18 | FSW | High frequency gain of focus servo loop can be changed by FS3 switch ON or OFF |
| 19 | HFGD | Reducing high frequency gain with capacitor connected between pin 18 and pin 19. |
| 20 | FSCH | Time constant external pin to generate focus search waveform |
| 21 | VREGI | External regulator voltage input pin for VCO |
| 22 | SET | Determine the peak value of focus search, track jump and SLED kick |
| 23 | VREG | 3.5V Regulator output pin |
| 24 | FVC | Pin connected external resistor to adjust free running frequency of VCO |
| 25 | SMEF | Providing an external LPF time constant of CLV SERVO loop |
| 26 | BPF | Providing time constant for Loop Filter of VCO |
| 27 | MCK | Clock input pin from micom |
| 28 | MLT | Latch input pin from micom |
| 29 | MDAT | Data input pin from micom |
| 30 | RESET | Reset input pin from micom, reset at "L" |
| 31 | LOCK | Pin for operation of the sled run-away prevention function at "L" |
| 32 | TRDY | Track count output pin |
| 33 | STAT | Internal status output pin |
| 34 | AVEE (S) | Analog negative power supply input pin for SERVO part |
| 35 | APC | Input pin of DSP phase comparison output (PHAS) |
| 36 | FBM | Output pin of analog VCO (Normal speed=8.64MHz, Double speed=17.28MHz |
| 37 | AASO | Auto-Asymmetry control input pin |
| 38 | EFMO | EFM comparator output pin |

| Pin No. | System | Description |
|---|---|---|
| 39 | SLEN | Non-inverting input pin of SLED SERVO amplifier |
| 40 | SLEO | Output pin of SLED SERVO amplifier |
| 41 | SLEI | Inverting input pin of SLED SERVO amplifier |
| 42 | TEST2 | Test input pin to change speed mode Normal speed="H" Double speed="L" |
| 43 | SPDI | Inverting input pin of spindle servo amplifier |
| 44 | SPDLO | Spindle servo amplifier output pin |
| 45 | FCE | Inverting input pin of focus servo complifier. |
| 46 | FSEO | Output pin of focus servo amplifier |
| 47 | TKEI | Non-inverting input pin of tracking servo amplifier |
| 48 | TKEO | Output pin of tracking servo amplifier |
| 49 | N/C | No connection |
| 50 | ATS | Anti-shock input pin |
| 51 | TZC | Tracking Zero Crossing input pin |
| 52 | TE2 | Tracking Error Servo input pin |
| 53 | TE1 | Output pin of tracking Error Amplifer |
| 54 | TDFCT | Capacitor Connection pin for Defect Compensation of tracking servo |
| 55 | DVCC(S) | Digital positive power supply input pin for servo part |
| 56 | FE2 | Focus error servo input pin |
| 57 | FE1 | Output pin of focus error Amplifer |
| 58 | FDFCT | Capacitor connection pin for defect compensation of focus servo |
| 59 | FOK | Output pin of Focus ok comparator. |
| 60 | LOON | Laser diode ON/OFF control pin |
| 61 | EI | Feedback input pin of E I-V amplifier |
| 62 | EO | Output pin of E I-V Amplifier |
| 63 | FBIAS | Bias pin of non-inverting input of focus error amplifier |
| 64 | DVEE (S) | Digital negative power supply input pin for servo part |
| 65 | RFI | Output Signal of RF summing amplifier is inputed through capacitor |
| 66 | RFO | Output pin of RF summing amplifier |
| 67 | RF- | Inverting input pin of RF summing amplifier |
| 68 | RV | Output pin of (AVCC+AVEE)/2 voltage |
| 69 | CV | Bias input pin of Center Voltage buffer |
| 70 | LD | Output pin of APC amplifier |
| 71 | PD | Input pin of APC amplifier |
| 72 | AVCC(RF) | Analog positive power supply input pin for RF part |
| 73 | N/C | No connection |
| 74 | PD2 | Inverting input pin of RF I-V AMP2 |
| 75 | PD1 | Inverting input pin of RF I-V AMP1 |
| 76 | F | Inverting input pin of F I-V AMP |
| 77 | E | Inverting input pin of E I-V AMP |
| 78 | PIN | Selecting Pre-pit Input of Laser diode |
| 79 | DCO2 | Defect bottom hold output is inputed through capacitor |
| 80 | DCO1 | Output pin of defect bottom hold |

■ KS9282


TEST
EFMI
APDO1
ISTA
IMON
LOCK
PBFK
SMEI
SMON
DVDD1
SMPD
SMSD
VCOO1
VCOI
DSPEED
APDO2
DB7
DB6
MCK
MDAT
MLT
MUTE
DVDD1
SDAT
SBCK
SOCK
SODT
SOCK
SOEN
RESET
SOSI
LKFS
AVDD1
DVDD
DFRN
DFCOUT
CNTVCK
AVSS1
DATX
XRST
XCKIN
WFCK
LRCK
ADATA
DVSS1
BCK
CPDO
VREFL2
VREFL1
AVDD2
RCHOUT
LCHOUT
AVSS2
VREFH1
VREFH2
EMPH

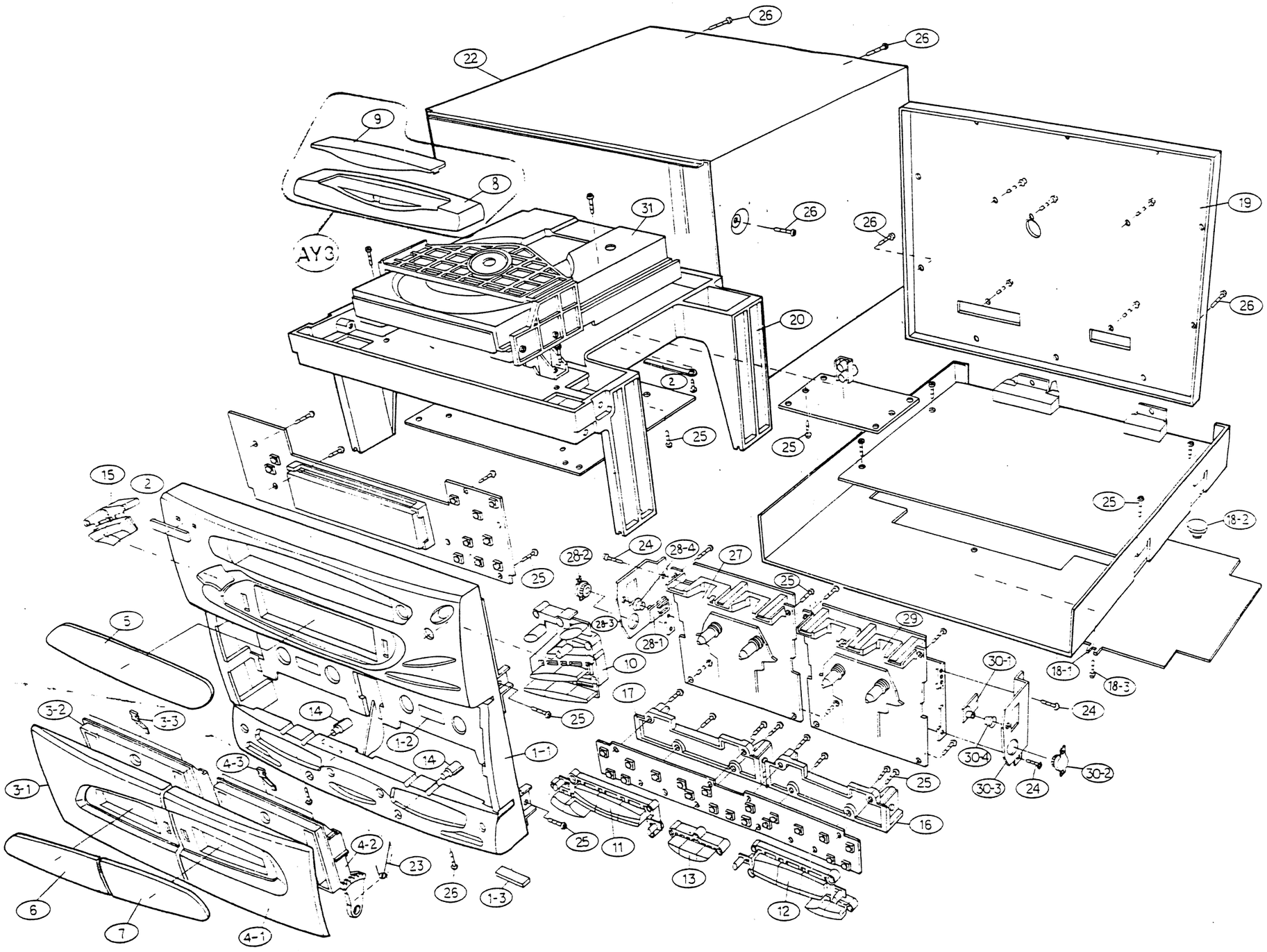

SOS
SBCK
SDAT
SOEN
SOCK
SUBCODE SYNC DETECTOR
SUBCODE OUTPUT
SUBCODE Q REGISTER
SODT
SOOK
EFM PHASE DETECTOR
28 BITS SHIFT REGISTER
EFM DEMODULATOR
DPLL
FRAME SYNC DETECTOR PROTECTOR INSERTOR
ECC
16K SRAM
SRAM ADDRESS
CLV SERVO
XTAL TIMING GENERATOR
INTERPOLATOR
TRACK COUNTER
CPU INTERFACE
DIGITAL FILTER (8 fs)
DIGITAL OUTPUT
D/A CONVERTER
VREFL1
VREFH1
DATX
RCHOUT
LCHOUT

## PIN DESCRIPTION

| Pin No. | Symbol | I/O | Description |
|---|---|---|---|
| 1 | AVDD1 | | Analog Vcc1 |
| 2 | DPDO | O | Charge pump output for master PLL |
| 3 | DPFIN | I | Filter input for master PLL |
| 4 | DPFOUT | O | Filter output for master PLL |
| 5 | CNTVOL | I | VCO control voltage for master PLL |
| 6 | AVSS1 | | Analog Ground 1 |
| 7 | DATX | O | Digital audio output |
| 8 | XIN | I | X-tal oscillator input |
| 9 | XOUT | O | X-tal oscillator output |
| 10 | WDCH | O | Word clock of 48 bit/SLOT<br>(Normal speed=88.2kHz. Double speed=176.4kHz) |
| 11 | LRCH | O | Channel clock of 48 bit/SLOT<br>(Normal speed=44.1kHz. Double speed=88.2kHz) |
| 12 | ADATA | O | Serial audio data output of 48 bit/SLOT (MSB first) |
| 13 | DVSS1 | | Digital Ground 1 |
| 14 | BCK | O | Audio data Bit clock for 48 bit/SLOT<br>(Normal speed=2.1168kHz. Double speed=4.2336kHz) |
| 15 | C2PO | O | C2 pointer for output audio data |
| 16 | VREFL2 | I | Input terminal 2 of reference voltage "L" (Floating) |
| 17 | VREFL1 | I | Input terminal 1 of reference voltage "L" (GND Connection) |
| 18 | AVDD2 | | Analog VCC2 |
| 19 | RCHOUT | O | Right-Channel audio output through D/A convertes |
| 20 | LCHOUT | O | Left-channel audio output through D/A converter |
| 21 | AVSS2 | | Analog Ground 2 |
| 22 | VREFH1 | I | Input terminal 1 of reference voltage "H" (Vdd connection) |
| 23 | VREFH2 | I | Input terminal 2 of reference voltage "H" (Floating) |
| 24 | EMPH | O | Emphasis/Non-Emphasis Output ("H": Emphasis) |
| 25 | LKFS | O | The Lock Status output of frame sync |
| 26 | SOSI | O | Output of subcode sync signal (S0+S1) |
| 27 | RESET | I | System reset at "L" |
| 28 | SQEN | I | SQCK I/O Control ("L": internal CK, "H": external CK) |
| 29 | SQCK | I/O | Clock for output Subcode-Q data |
| 30 | SQDT | O | Serial output of Subcode-Q data |
| 31 | SQOK | O | The CRC check result signal output of subcode-Q |
| 32 | SBCK | I | CLOCK for output subcode-Q data |
| 33 | SDAT | O | Subcode serial data output |
| 34 | DVDD1 | | Digital Vcc1 |
| 35 | MUTE | I | Mute control input ("H": Mute on) |
| 36 | MLT | I | Latch Signal input from Micom |
| 37 | MDAT | I | Serial data input from Micom |
| 38 | MCK | I | Serial Clock input from Micom |
| 39 | DB8 | I/O | SRAM data I/O Port 8 (MSB) |
| 40 | DB7 | I/O | SRAM data I/O Port 7 |
| 41 | DB6 | I/O | SRAM data I/O Port 6 |
| 42 | DB5 | I/O | SRAM data I/O Port 5 |

| Pin No. | Symbol | I/O | Description |
|---|---|---|---|
| 43 | DB4 | I/O | SRAM data I/O port 4 |
| 44 | DB3 | I/O | SRAM data I/O Port 3 |
| 45 | DB2 | I/O | SRAM data I/O PORT 2 |
| 46 | DB1 | I/O | SRAM data I/O Port 1 (LSB) |
| 47 | C1F1 | I/O | Monitoring output for C1 error correction (RA1) |
| 48 | C1F2 | I/O | Monitoring output for C1 error correction (RA2) |
| 49 | C2F1 | I/O | Monitoring output for C2 error correction (RA3) |
| 50 | C2F2 | I/O | Monitoring output for C2 error correction (RA4) |
| 51 | C2FL | I/O | C2 decoder flag<br>(High: When the processing C2 code is impossible correction state) (RA5) |
| 52 | /PBCK | I/O | Output of VCO/2<br>(Normal speed=4.3218MHZ. Double speed=8.6436MHz) (RA6) |
| 53 | DVss2 | | Digital Ground 2 |
| 54 | FSDW | I/O | Unprotected frame sync (RA7) |
| 55 | ULKFS | I/O | Frame sync protection state (RA8) |
| 56 | /JIT | I/O | Display of either RAM overflow or underflow for ±4 frame jitter margin (RA9) |
| 57 | C4M | I/O | Only monitoring signal (Normal playback: 4.2336MHz) (RA10) |
| 58 | C16M | I/O | 16.9344MHz signal output (RA11) |
| 59 | /WE | I/O | Terminal for test |
| 60 | /CS | I/O | Terminal for test |
| 61 | SEL1 | I | Mode Selection Terminal 1 (H: 33.8688MHz, L: 16.9344MHz) |
| 62 | SEL2 | I | Mode Selection Terminal 2 (H: APLL L: DPLL) |
| 63 | SEL3 | I | Mode Selection Terminal 3 (H: CDROM L: CDP) |
| 64 | SEL4 | I | Mode Selection Terminal 4 (L: internal SRAM) |
| 65 | TEST | I | Test Terminal (L=Normal operating state) |
| 66 | EFMI | I | EFM Signal input |
| 67 | APDO | O | Charge Pump output for analog PLL |
| 68 | /ISTAT | O | The internal status output |
| 69 | TRCNT | I | Tracking counter input signal |
| 70 | LOCK | O | Output signal of LKFS Condition sampled PBFR/16<br>(If LKFS is "H", Lock is "H".<br>If the LKFS is sampled "L" at least 3 times by PBFR/16, Lock is "L") |
| 71 | PBFR | O | Write frame clock (Lock: 7.35kHz) |
| 72 | SMEF | O | LPF time constant control of the spindle servo error signal |
| 73 | SMON | O | ON/OFF control signal for spindle servo |
| 74 | DVDD2 | | Digital Vcc 2 |
| 75 | SMPD | O | Spindle Motor drive<br>(Rough control in the CLV-S mode<br>Phase control in the CLV-P mode) |
| 76 | SMSD | O | Spindle Motor drive (Velocity control in the CLV-P mode) |
| 77 | VCOO | O | Vco output signal (When the state is lock by means of PBFR, it is 8.643MHz |
| 78 | VCOI | I | VCO input signal |
| 79 | DSPEED | I | Double speed mode control (H: Normal Speed, L: Double Speed |
| 80 | APDO2 | O | Analog PLL Charge Pump output for Double Speed mode |

# EXPLODED VIEW/PARTS LIST ■ CABINET



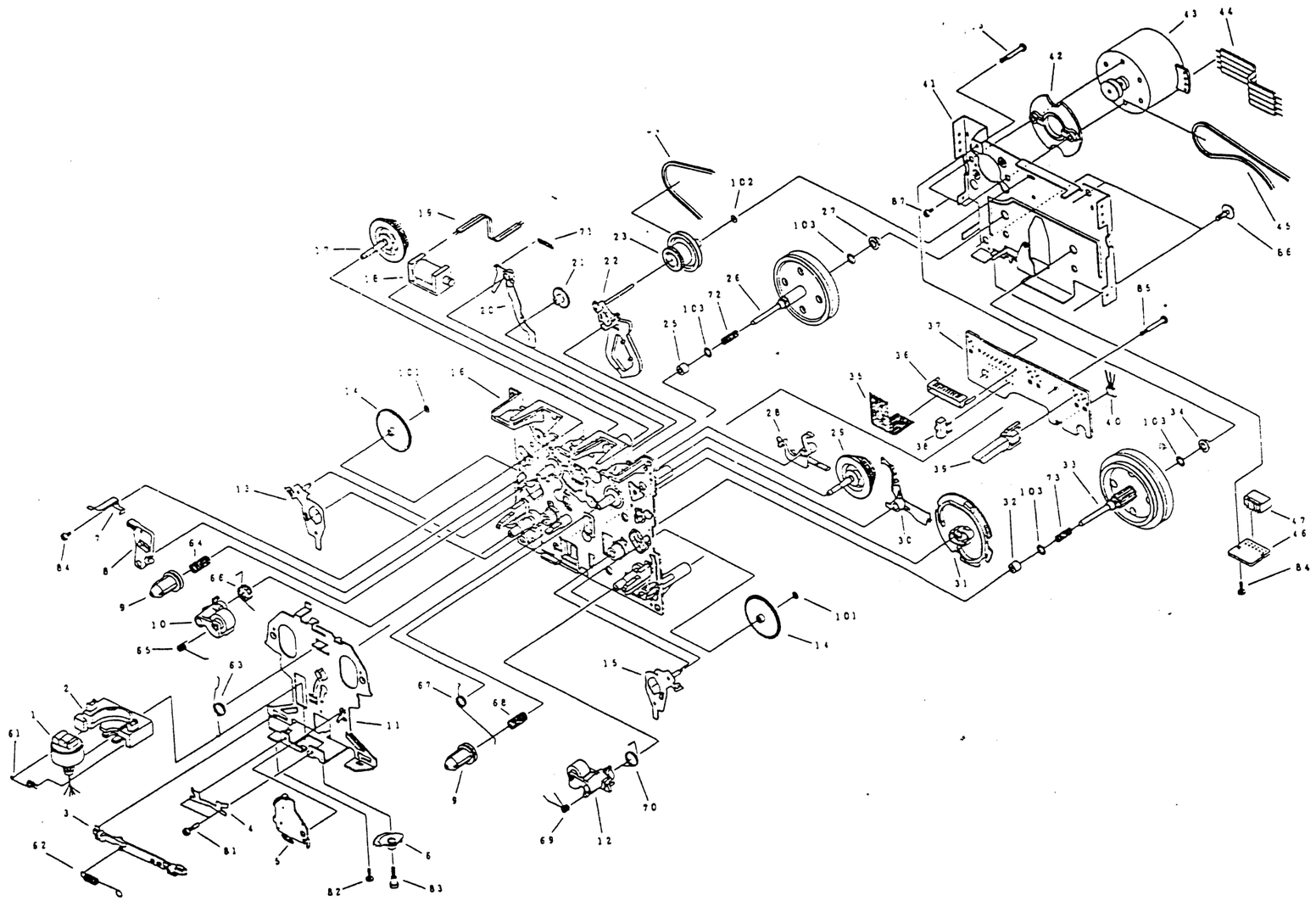

| REF. NO. | PART NO. | DESCRIPTION | Q'TY |
|---|---|---|---|
| 1 | 3721SU0778B | FRONT PANEL SUB ASSEMBLY | 1 |
| 1-1 | 3720S-0778B | PANEL, FRONT | 1 |
| 1-2 | 256-188A | PLATE, REFLECTION | 2 |
| 1-3 | 472-125A | FELT | 2 |
| 2 | 241-016A | MARK, GOLDSTAR | 1 |
| 3 | 3580SU0007B | DOOR SUB ASSEMBLY - LEFT | 1 |
| 3-1 | 221-771B | COVER, CASSETTE-LEFT | 1 |
| 3-2 | 3580S-0007A | DOOR, CASSETTE - LEFT | 1 |
| 3-3 | 442-211D | SPRING | 2 |
| 4 | 3580SU0008B | DOOR SUB ASSEMBLY - RIGHT | 1 |
| 4-1 | 221-772B | COVER, CASSETTE - RIGHT | 1 |
| 4-2 | 3580S-0008A | DOOR, CASSETTE - RIGHT | 1 |
| 4-3 | 442-211D | SPRING | 2 |
| 5 | 3790S-0013A | WINDOW, FIP DISPLAY | 1 |
| 6 | 3790S-0014B | WINDOW, CASSETTE - LEFT | 1 |
| 7 | 3790S-0015B | WINDOW, CASSETTE - RIGHT | 1 |
| 8 | 3580S-0009B | DOOR, CD-DEMO | 1 |
| 9 | 246-777A | DECORATION, CD-DOOR | 1 |
| 10 | 4940S-0775A | KNOB, CD-OPEN/PLAY/SKIP | 1 |
| 11 | 4940S-0776A | KNOB DECK-PLAY/BACK | 1 |
| 12 | 4940S-0777A | KNOB, DECK-PALY/RECORD | 1 |
| 13 | 4940S-0778A | KNOB, DECK-DUBBING/DOLBY | 1 |
| 14 | 4940S-0779A | KNOB, DECK-MODE/CD-SYNCHRO | 2 |
| 15 | 4940S-0781A | KNOB, CD-PROGRAM | 1 |
| 16 | 4930S-0015A | HOLDER, DECK PCB - LEFT | 1 |
| 17 | 4930S-0015B | HOLDER, DECK PVB-RIGHT | 1 |
| 18 | 3141SU0322B | CHASSIS SUB ASSEMBLY | 1 |
| 18-1 | 3140S-0322B | CHASSIS, MAIN | 1 |
| 18-2 | 265-013B | FOOT, RUBBER | 2 |
| 18-3 | 353-025G | SCREW, TAPTITE 3 x 10 | 1 |
| 19 | 3720S-0779B | PANEL, BACK | 1 |
| 20 | 3140S-0323A | CHASSIS CD-BOTTOM | 1 |
| 21 | 562-050N | LUG, WIRE BEND L=60 | 1 |
| 22 | 213-709B | CABINET, TOP | 1 |
| 23 | 442-085F | SPRING, DOOR CASSETTE | 2 |
| 24 | 353-022K | SCREW, TAPTITE 2 x 3 | 4 |
| 25 | 353-025G | SCREW, TAPTITE 3 x 10 | 33 |
| 26 | 353-025C | SCREW, TAPTITE 3 x 10 | 20 |
| 27 | 419-005J | DECK MECHANISM, CRF 443 P/B PIGEON | 1 |
| 28 | 4810SU0114A | BRACKET DAMPER ASSEMBLY - LEFT | 1 |
| 28-1 | 384-014A | GUIDE, EJECTOR | 1 |
| 28-2 | 444-014A | DAMPER ASSEMBLY | 1 |
| 28-3 | 4810S-0114A | BRACKET DAMPER | 1 |
| 28-4 | 442-780A | SPRING | 1 |
| 29 | 419-005I | DECK MECHANISM, CRF443 R/P PIGEON | 1 |
| 30 | 4810SU0114B | BRACKET DAMPER ASSEMBLY-RIGHT | 1 |
| 31 | 411-044H | CD MECHANISM ASSEMBLY, CDM-K205 | 1 |

| | | | |
|---|---|---|---|
| AY1 | 3580SX0007B | CASSETTE DOOR-L ASSEMBLY | 1 |
| AY2 | 3580SX0008B | CASSETTE DOOR-R ASSEMBLY | 1 |
| AY3 | 3580SX0009B | CD DOOR ASSEMBLY | 1 |

NOTE) Ref No. shows a group unit of assembly.

# EXPLODED VIEW/PARTS LIST

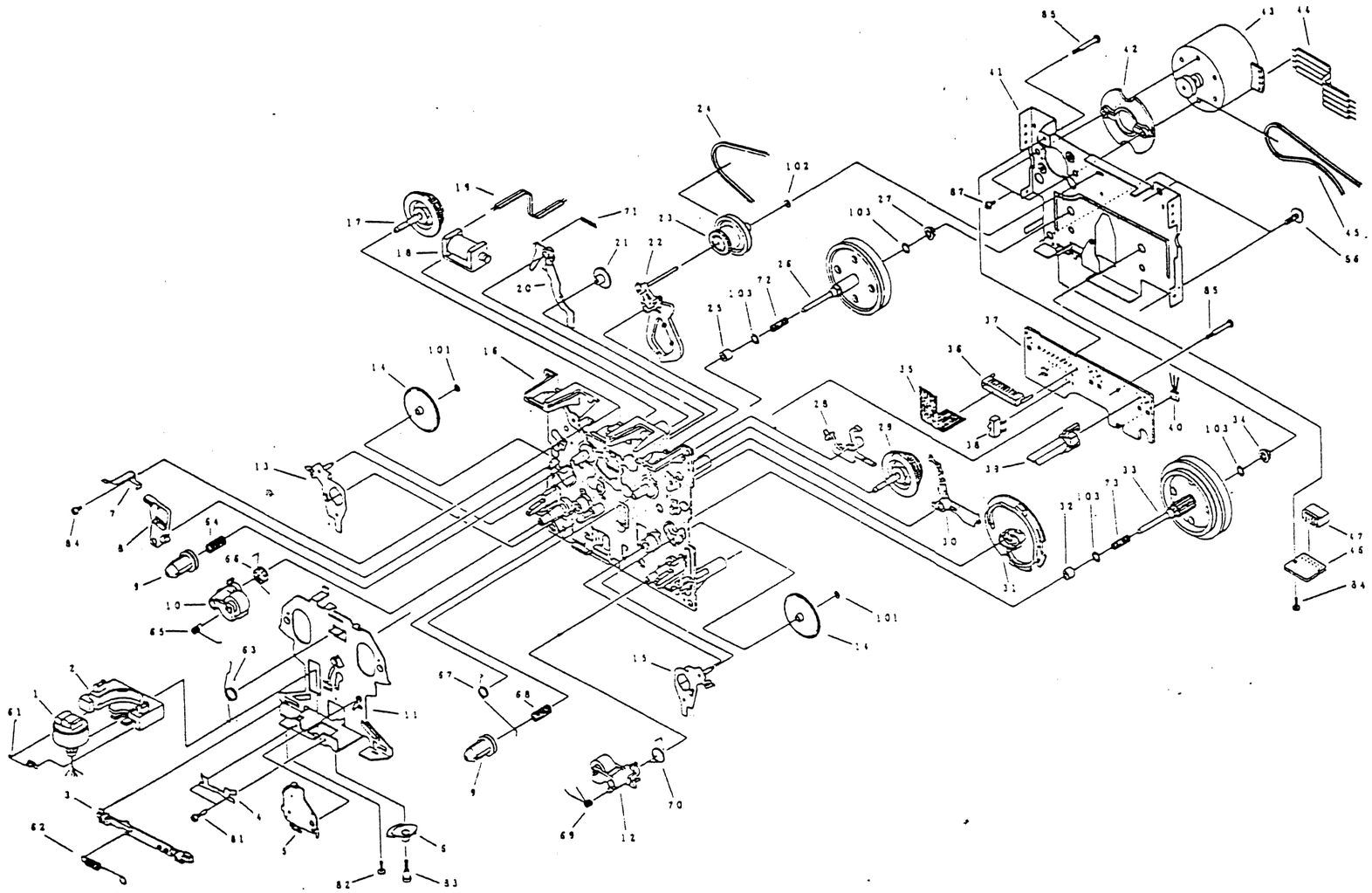
## ■ RECORD/PLAYBACK TAPE DECK MECHANISM



| NO. | PART NAME | PART NO. | Q'TY |
|---|---|---|---|
| - | DECK MECHANISM: CRF443 | 419-005J | 1 |
| 1 | ASS'Y HOLDER HEAD | 99P-3048 | 1 |
| 2 | FLAME HEAD | 99P-3002 | 1 |
| 3 | LEVER HEAD | 99P-3003 | 1 |
| 4 | SPRING AZIMUTH | 99P-3004 | 1 |
| 5 | ASS'Y ARM ASSIST | 99P-3005 | 1 |
| 6 | GEAR ARM HEAD | 99P-3006 | 1 |
| 7 | SPRING CASSETTE | 99P-3007 | 1 |
| 8 | EJECT LOCK | 99P-3008 | 1 |
| 9 | CAP REEL | 99P-3009 | 2 |
| 10 | ASS'Y PINCH ARM L | 99P-3010 | 1 |
| 11 | CHASSIS HEAD | 99P-3011 | 1 |
| 12 | ASS'Y PINCH ARM R | 99P-3012 | 1 |
| 13 | ASS'Y ARM PLAY L | 99P-4146 | 1 |
| 14 | GEAR PLAY | 99P-4147 | 2 |
| 15 | ASS'Y ARM PLAY R | 99P-4148 | 1 |
| 16 | CHASSIS OS. | 99P-3016 | 1 |
| 17 | ASS'Y SUB REEL L | 99P-3017 | 1 |
| 18 | SOLENOID | 99P-3018 | 1 |
| 19 | WIRE | 99P-3019 | 1 |
| 20 | ARM RVS | 99P-3020 | 1 |
| 21 | GEAR FF | 99P-3021 | 1 |
| 22 | ASS'Y ARM FR | 99P-3022 | 1 |
| 23 | ASS'Y PULLEY FR | 99P-3023 | 1 |
| 24 | BELT FR | 99P-3024 | 1 |
| 25 | METAL | 99P-3025 | 1 |
| 26 | ASS'Y FLYWHEEL L | 99P-3026 | 1 |
| 27 | METAL | 99P-3027 | 1 |
| 28 | ARM BRAKE | 99P-3028 | 1 |
| 29 | ASS'Y SUB REEL R | 99P-3029 | 1 |
| 30 | ARM TRIGGER | 99P-3030 | 1 |
| 31 | GEAR CAM | 99P-3031 | 1 |
| 32 | METAL | 99P-3032 | 1 |
| 33 | ASS'Y FLYWHEEL R | 99P-3033 | 1 |
| 34 | METAL | 99P-3034 | 1 |
| 35 | WIRE (11P) | 99P-3049 | 1 |
| 36 | HOLDER WIRE | 99P-3036 | 1 |
| 37 | P.C. BOARD | 99P-3037 | 1 |
| 38 | SWITCH MODE | 99P-3038 | 1 |
| 39 | SWITCH (LEAF) | 99P-3039 | 5 |
| 40 | HALL IC. | 99P-3040 | 1 |
| 41 | BRACKET FW | 99P-3041 | 1 |
| 42 | SPACER | 99P-3042 | 1 |
| 43 | ASS'Y MOTOR | 99P-3043 | 1 |
| 44 | WIRE | 99P-3044 | 1 |
| 45 | BELT MAIN | 99P-3045 | 1 |
| 46 | P.C. BOARD | 99P-3046 | 1 |
| 47 | HOUSING | 99P-3050 | 1 |
| 61 | SPRING | 99P-3051 | 1 |
| 62 | SPRING | 99P-3052 | 1 |
| 63 | SPRING | 99P-3053 | 1 |
| 64 | SPRING | 99P-3054 | 1 |
| 65 | SPRING | 99P-3055 | 1 |
| 66 | SPRING | 99P-3056 | 1 |
| 67 | SPRING | 99P-3057 | 1 |
| 68 | SPRING | 99P-3058 | 1 |
| 69 | SPRING | 99P-3059 | 1 |
| 70 | SPRING | 99P-3060 | 1 |
| 71 | SPRING | 99P-3061 | 1 |
| 72 | SPRING | 99P-3062 | 1 |
| 73 | SPRING | 99P-3063 | 1 |
| 81 | SCREW | 99P-3064 | 2 |
| 82 | SCREW | 99P-3065 | 1 |
| 83 | SCREW | 99P-3066 | 1 |
| 84 | SCREW | 99P-3067 | 2 |
| 85 | SCREW | 99P-3068 | 2 |
| 86 | SCREW | 99P-3069 | 3 |
| 87 | SCREW | 99P-3070 | 2 |
| 101 | WASHER | 99P-3070 | 2 |
| 102 | WASHER | 99P-3072 | 1 |
| 103 | WASHER | 99P-3073 | 4 |

# EXPLODED VIEW/PARTS LIST

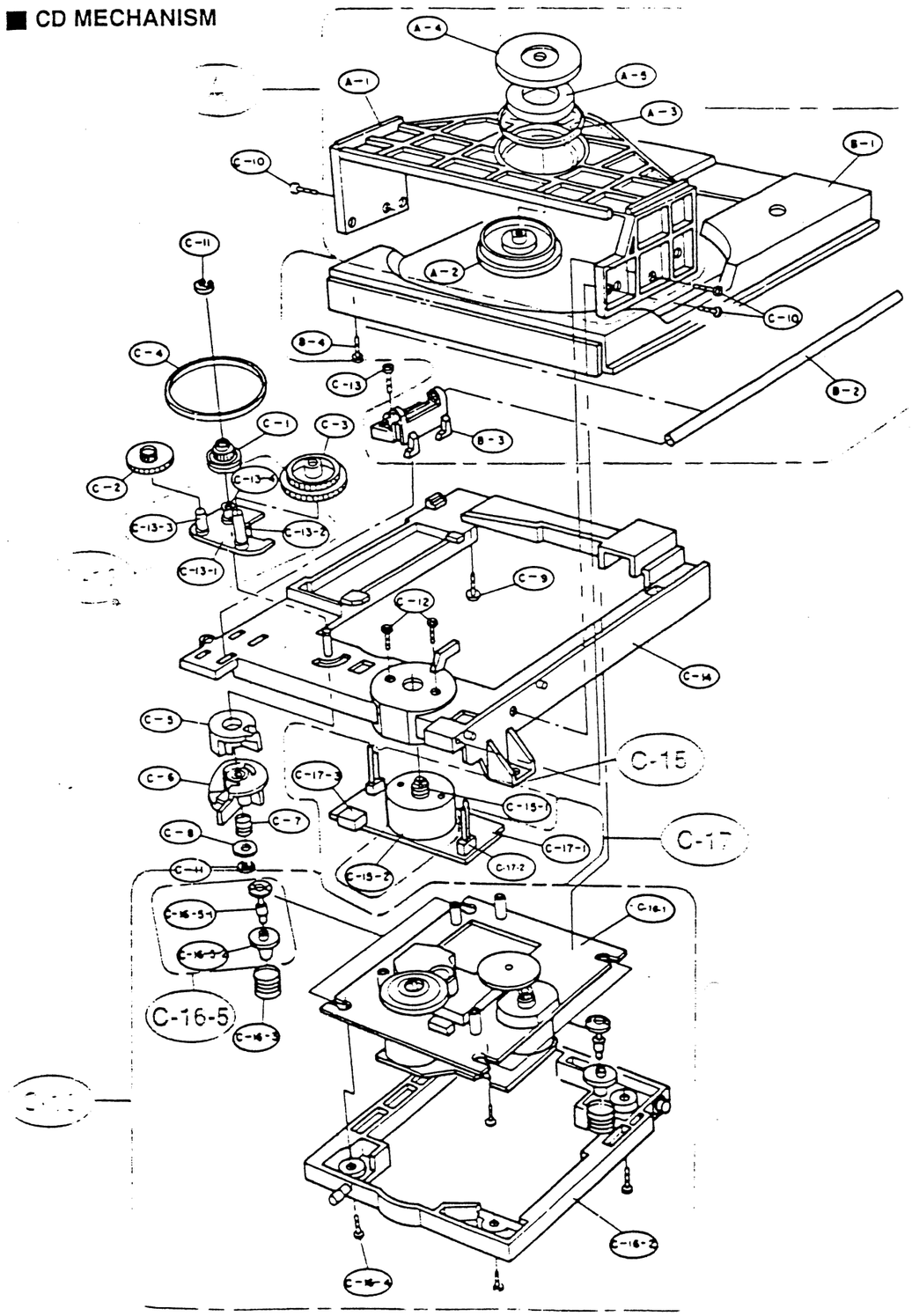
## ■ PLAYBACK TAPE DECK MECHANISM



| NO. | PART NAME | PART NO. | Q'TY |
|---|---|---|---|
| | DECK MECHANISM. CRF444 | 419-0051 | 1 |
| 1 | ASS'Y HOLDER HEAD | 99P-3001 | 1 |
| 2 | PLAME HEAD | 99P-3002 | 1 |
| 3 | LEVER HEAD | 99P-3003 | 1 |
| 4 | SPRING AZIMUTH | 99P-3004 | 1 |
| 5 | ASS'Y ARM ASSIST | 99P-3005 | 1 |
| 6 | GEAR ARM HEAD | 99P-3006 | 1 |
| 7 | SPRING CASSETTE | 99P-3007 | 1 |
| 8 | EJECT LOCK | 99P-3008 | 1 |
| 9 | CAP REEL | 99P-3009 | 2 |
| 10 | ASS'Y PINCH ARM L | 99P-3010 | 1 |
| 11 | CHASSIS HEAD | 99P-3011 | 1 |
| 12 | ASS'Y PINCH ARM R | 99P-3012 | 1 |
| 13 | ASS'Y ARM PLAY L | 99P-3013 | 1 |
| 14 | GEAR PLAY | 99P-3014 | 2 |
| 15 | ASS'Y ARM PLAY R | 99P-3015 | 1 |
| 16 | CHASSIS OS. | 99P-3016 | 1 |
| 17 | ASS'Y SUB REEL L | 99P-3017 | 1 |
| 18 | SOLENOID | 99P-3018 | 1 |
| 19 | WIRE | 99P-3019 | 1 |
| 20 | ARM RVS | 99P-3020 | 1 |
| 21 | GEAR FF | 99P-3021 | 1 |
| 22 | ASS'Y ARM FR | 99P-3022 | 1 |
| 23 | ASS'Y PULLEY FR | 99P-3023 | 1 |
| 24 | BELT FR | 99P-3024 | 1 |
| 25 | METAL | 99P-3025 | 1 |
| 26 | ASS'Y FLYWHEEL L | 99P-3026 | 1 |
| 27 | METAL | 99P-3027 | 1 |
| 28 | ARM BRAKE | 99P-3028 | 1 |
| 29 | ASS'Y SUB REEL R | 99P-3029 | 1 |
| 30 | ARM TRIGGER | 99P-3030 | 1 |
| 31 | GEAR CAM | 99P-3031 | 1 |
| 32 | METAL | 99P-3032 | 1 |
| 33 | ASS'Y FLYWHEEL R | 99P-3033 | 1 |
| 34 | METAL | 99P-3034 | 1 |
| 35 | WIRE(13P) | 99P-3035 | 1 |
| 36 | HOLDER WIRE | 99P-3036 | 1 |
| 37 | P.C. BOARD | 99P-3037 | 1 |
| 38 | SWITCH MODE | 99P-3038 | 1 |
| 39 | SWITCH (LEAF) | 99P-3039 | 5 |
| 40 | HALL IC. | 99P-3040 | 1 |
| 41 | BRACKET FW | 99P-3041 | 1 |
| 42 | SPACER | 99P-3042 | 1 |
| 43 | ASS'Y MOTOR | 99P-3043 | 1 |
| 44 | WIRE | 99P-3044 | |
| 45 | BELT MAIN | 99P-3045 | 1 |
| 46 | P.C. BOARD | 99P-3046 | 1 |
| 47 | HOUSING | 99P-3047 | 1 |
| 61 | SPRING | 99P-3051 | 1 |
| 62 | SPRING | 99P-3052 | 1 |
| 63 | SPRING | 99P-3053 | 1 |
| 64 | SPRING | 99P-3054 | 1 |
| 65 | SPRING | 99P-3055 | 1 |
| 66 | SPRING | 99P-3056 | 1 |
| 67 | SPRING | 99P-3057 | 1 |
| 68 | SPRING | 99P-3058 | 1 |
| 69 | SPRING | 99P-3059 | 1 |
| 70 | SPRING | 99P-3060 | 1 |
| 71 | SPRING | 99P-3061 | 1 |
| 72 | SPRING | 99P-3062 | 1 |
| 73 | SPRING | 99P-3063 | 1 |
| 81 | SCREW | 99P-3064 | 2 |
| 82 | SCREW | 99P-3065 | 1 |
| 83 | SCREW | 99P-3065 | 1 |
| 84 | SCREW | 99P-3067 | 2 |
| 85 | SCREW | 99P-3068 | 2 |
| 86 | SCREW | 99P-3069 | 3 |
| 87 | SCREW | 99P-3070 | 2 |
| 101 | WASHER | 99P-3071 | 2 |
| 102 | WASHER | 99P-3072 | 1 |
| 103 | WASHER | 99P-3073 | 4 |

# EXPLODED VIEW/PARTS LIST

## ■ CD MECHANISM



| REF. NO. | PART NO. | DESCRIPTION | Q'TY |
|---|---|---|---|
| - | 411-044H | Mechanism Assembly, CDM-X205 | 1 |
| A | 322-321E | SUPPORTER, CLAMP AY | 1 |
| A-1 | 322-322A | SUPPORTER, CLAMP | 1 |
| A-2 | 327-013C | SUPPORTER, CLAMP | 1 |
| A-3 | 384-064A | GUIDE, MAGNET | 1 |
| A-4 | 221-527A | COVER, MAGNET | 1 |
| A-5 | 524-012A | COVER, CLAMP MAGNET | 1 |
| B | 318-317A | TRAY, DISC AY | 1 |
| B-1 | 318-318A | TRAY, DISC | 1 |
| B-2 | 423-423A | SHAFT, LOADING | 1 |
| B-3 | 384-384A | GUIDE, SHAFT | 1 |
| C | 225-224B | BASE, AY | 1 |
| C-1 | 435-435A | GEAR, PULLEY | 1 |
| C-2 | 435-436A | GEAR, MIDDLE | 1 |
| C-3 | 435-437A | GEAR, LOADING | 1 |
| C-4 | 451-145U | BELT, COUNTER | 1 |
| C-5 | 374-374A | CAM AY, UP | 1 |
| C-6 | 374-375A | CAM AY, DOWN | 1 |
| C-7 | 442-778A | SPRING, COM | 1 |
| C-8 | 354S354A | WASHER, PLATE | 1 |
| C-9 | 353S353B | SCREW, WASHER | 1 |
| C-10 | 353S353C | SCREW, BIND | 3 |
| C-11 | 345S345A | RING-E | 2 |
| C-12 | 353S353F | SCREW, BIND MACHINE | 2 |
| C-13 | 252-252A | PLATE, SCALE AY | 1 |
| C-13-1 | 252-253A | PLATE, SCALE AY | 1 |
| C-13-2 | 356-356A | PIN PULLEY | 1 |
| C-13-3 | 356-357A | PIN MIDDLE | 1 |
| C-13-4 | 341-341A | BUSHING, PULEY | 1 |
| C-14 | 225-225A | BASE, LOADING AY | 1 |
| C-15 | 414-043A | MOTOR AY | 1 |
| C-15-1 | 432-432A | PULLEY, MOTOR | 1 |
| C-15-2 | 414-044A | MOTOR(RF500TB-14415;MABUCHI) | 1 |
| C-16 | 225-228B | BASE, PU AY | 1 |
| C-16-1 | 411-045B | MECHA. AY (KSM 2101ABM, SONY) | 1 |
| C-16-2 | 225-229A | BASE, PU | 1 |
| C-16-3 | 442-717A | SPRING, ANTI-VIB. | 4 |
| C-16-4 | 353S353A | SCREW, WASHER | 4 |
| C-16-5 | 322-324A | SUPPORTER, SPRING AY | 4 |
| C-16-5-1 | 322-323A | SUPORTER, SPRING | 4 |
| C-16-5-2 | 477-106A | RUBBER, ANTI-VIB. | 4 |
| C-17 | 6870S-158AA | PWB AY | 1 |
| C-17-1 | 6870S-159AA | PWB, LOADING AY | 1 |
| C-17-2 | 558-041A | S/W, SPECIAL (MSW18020MVJ0: MIC) | 2 |
| C-17-3 | 563E010A | CONNECTOR AY, WAFER (JST S5B-PH(5P)) | 1 |





# ELECTRICAL PARTS LIST

NOTE: Parts marked with " ⚠ " are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | **ICs** | | |
| | IC201 | 0IDA866224B | LC866224A-5539 TY 8BIT FJ-575 |
| | IC202 | 0IKE703900B | KIA7039P 3.9V RESET.TP.KEC |
| | IC203 | 0IGG781200C | GL7812 12V 1A REGULATOR.G/S |
| | IC204 | 0IGG780500A | GL7805 REGULATOR |
| | IC205 | 0IGG781200C | GL7812 12V 1A REGULATOR.G/S |
| | IC401 | 0ICA524600A | LA3246 PRE AMP P/B SANYO (S) |
| | IC402 | 0IS01101000A | CXA1101 DOLBY-B |
| | IC403 | 0IS0129800A | CXA1298AP REC EQ |
| | IC404 | 0IRH335000A | BA335 APSS ROHM |
| | IC405 | 0IRH312600A | BA3126N HI-VOL HEAD S/W.ROHM/ |
| | IC801 | 0IS9922000A | KA9220 TY 80-QFP-1420C AGP |
| | IC802 | 0IS9925800A | KA9258D-T1 4CH DRIVER.S/S |
| | IC803 | 0IRH620900B | BA6209N MOTOR DRIVER |
| | IC804 | 0IS9928200B | KS9282B TY DSP FOR CDP |
| | IC805 | 0IS9927000B | KA9270 ST (DIP) AUDIO FILTER |
| | **TRANSISTORS** | | |
| | Q201 | 0TR127309AA | KTA1273-TP-Y (KTA966A)KEC |
| | Q202 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q204 | 0TR130209AA | KTD1302 MUTING TP.KEC |
| | Q205 | 0TR130209AA | KTD1302 MUTING TP.KEC |
| | Q206 | 0TR126609AB | KTA1266-GR TP.KEC(KTA1015GR) |
| | Q210 | 0TR103009AF | KRA103M TP.KEC(KRA2203) |
| | Q211 | 0TR111009AC | KRA111M TP.KEC |
| | Q212 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q213 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q214 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q215 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q216 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q217 | 0TR126609AB | KTA1266-GR TP.KEC(KTA1015GR) |
| | Q219 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q220 | 0TR103009AF | KRA103M TP.KEC(KRA2203) |
| | Q251 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q252 | 0TR127309AA | KTA1273-TP-Y (KTA966A)KEC |
| | Q253 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q254 | 0TR127309AA | KTA1273-TP-Y (KTA966A)KEC |
| | Q255 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q256 | 0TR127309AA | KTA1273-TP-Y (KTA966A)KEC |
| | Q257 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q258 | 0TR127309AA | KTA1273-TP-Y (KTA966A)KEC |
| | Q259 | 0TR126609AB | KTA1266-GR TP.KEC(KTA1015GR) |
| | Q260 | 0TR126609AB | KTA1266-GR TP.KEC(KTA1015GR) |
| | Q261 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q263 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q264 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q400 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q401 | 0TR111009AD | KRC111M TP.KEC |
| | Q404 | 0TR111009AD | KRC111M TP.KEC |
| | Q405 | 0TR130209AA | KTD1302 MUTING TP.KEC |
| | Q429 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q430 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q451 | 0TR111009AD | KRC111M TP.KEC |
| | Q453 | 0TR111009AD | KRC111M TP.KEC |
| | Q454 | 0TR111009AD | KRC111M TP.KEC |
| | Q455 | 0TR130209AA | KTD1302 MUTING TP.KEC |
| | Q490 | 0TR320509AB | KTC3205-TP-Y (KTC2236A)KEC |
| | Q492 | 0TR320509AB | KTC3205-TP-Y (KTC2236A)KEC |
| | Q493 | 0TR320509AB | KTC3205-TP-Y (KTC2236A)KEC |
| | Q494 | 0TR320009AA | KTC3200-TP-GR (KTC2240)KEC |
| | Q801 | 0TR126609AB | KTA1266-GR TP.KEC(KTA1015GR) |
| | Q802 | 0TR127309AA | KTA1273-TP-Y (KTA966A)KEC |
| | Q806 | 0TP830000AF | KTD880A-O (KTD880) KEC |
| | Q807 | 0TR126609AB | KTA1266-GR TP.KEC(KTA1015GR) |
| | Q808 | 0TR319809AA | KTC3198-TP-Y (KTC1815)KEC |
| | **DIODES** | | |
| | D201 | 0DD151000FA | PBM151.BRID.SILITER.FORMING |
| | D203 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D204 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D205 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D207 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D208 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D209 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D210 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D211 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D212 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D215 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D216 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D217 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D218 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D251 | 0DD400109DA | 1N4001.RECT.ROHM.TP |
| | D253 | 0DD400109DA | 1N4001.RECT.ROHM.TP |
| | D255 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D256 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D490 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D801 | 0DD132009AA | 1SS132 DETECT.SW TP |
| | D803 | 0CD352009BA | 1SR35-200A T-95Y 2K TP ROHM/K |
| | D804 | 0CD352009BA | 1SR35-200A T-95Y 2K TP ROHM/K |
| | **ZENER DIODES** | | |
| | ZD201 | 0DZ220009FF | MTZ22D-T-77 ROHM-K |
| | ZD202 | 0DZ620009EA | MTZ6.2-B T-77 6.2V TP.ROHM/K |
| | ZD801 | 0DZ330009AG | MTZ3.3B-T-77 ROHM-K |
| | **CAPACITORS** | | |
| | C201 | 0CK2230K945 | 0.022M 50V Z F TG |
| | C202 | 0CK2230K945 | 0.022M 50V Z F TG |
| | C203 | 0CK2230K945 | 0.022M 50V Z F TG |
| | C204 | 0CK2230K945 | 0.022M 50V Z F TG |
| | C205 | 0CE5336H650 | 3300M SMS 25V M FM7.5 |
| | C207 | 0CE1076F618 | 100M SMS 16V M FM5 TP(5) |
| | C208 | 0CE477CF618 | 470UF SHL 16V M FL TP5 |
| | C209 | 0CE1076F618 | 100M SMS 16V M FM5 TP(5) |
| | C210 | 0CE1076F618 | 100M SMS 16V M FM5 TP(5) |
| | C211 | 0CE107JD618 | 100M SMS 10V M FM5 TP(5) |
| | C212 | 0CE105K618 | 1.0M SMS 50V M FL TP(5) |
| | C213 | 0CE106J618 | 10M SMS 35V M FL TP(5) |
| | C214 | 0CN1040K948 | 0.1UF 50V Z F TA26 |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | C215 | QCN1040K948 | 0.1UF 50V Z F TA26 |
| | C216 | QCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C240 | QCE6846K618 | 0.68M SMS 50V M FL TP(5) |
| | C242 | QCE1076D618 | 100M SMS 10V M FM5 TP(5) |
| | C243 | QCE1076F618 | 100M SMS 16V M FM5 TP(5) |
| | C251 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C252 | QCX3300K408 | 33P 50V J SL TA26 |
| | C253 | QCX3300K408 | 33P 50V J SL TA26 |
| | C255 | QCN1040K948 | 0.1UF 50V Z F TA26 |
| | C256 | QCN1040K948 | 0.1UF 50V Z F TA26 |
| | C280 | QCN2230H948 | 0.022UF 25V Z F TA26 |
| | C281 | QCN2230H948 | 0.022UF 25V Z F TA26 |
| | C282 | QCN2230H948 | 0.022UF 25V Z F TA26 |
| | C283 | QCN2230H948 | 0.022UF 25V Z F TA26 |
| | C400 | QCE1076D618 | 100M SMS 10V M FM5 TP(5) |
| | C401 | QCC2210K405 | 220P 50V J SL TP |
| | C402 | QCC2210K405 | 220P 50V J SL TP |
| | C403 | QCN3310K518 | 330P 50V K B TA26 |
| | C404 | QCN3310K518 | 330P 50V K B TA26 |
| | C405 | QCE1076D618 | 100M SMS 10V M FM5 TP(5) |
| | C406 | QCQ1231N409 | 0.012U 100V J POLY TP |
| | C407 | QCQ4731N409 | 0.047U 100V J POLY TP |
| | C408 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C410 | QCN3920F668 | 3900P 16V M X TA26 |
| | C411 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C412 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C413 | QCE6846K618 | 0.68M SMS 50V M FL TP(5) |
| | C414 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C415 | QCE336K618 | 0.33M SMS 50V M FL TP(5) |
| | C416 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C417 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C418 | QCK1020K945 | 1000P 50V Z F TS |
| | C419 | QCN1510K518 | 150P 50V K B TA26 |
| | C420 | QCC2210K405 | 220P 50V J SL TP |
| | C421 | QCC3000K415 | 30P 50V J NPO TP |
| | C422 | QCN8210K518 | 820P 50V K B TA26 |
| | C431 | QCN1010K518 | 100P 50V K B TA26 |
| | C432 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C433 | QCN5610K518 | 560P 50V K B TA26 |
| | C435 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C436 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C440 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C441 | QCE2246K618 | 0.22M SMS 50V M FM5 TP(5) |
| | C442 | QCE4746K618 | 0.47M SMS 50V M FL TP(5) |
| | C443 | QCE1076F618 | 100M SMS 16V M FM5 TP(5) |
| | C445 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C446 | QCE1076D618 | 100M SMS 10V M FM5 TP(5) |
| | C447 | QCE2276F618 | 220M SMS 16V M FM5 TP(5) |
| | C448 | QCE1076F618 | 100M SMS 16V M FM5 TP(5) |
| | C449 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C450 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C451 | QCC2210K405 | 220P 50V J SL TP |
| | C452 | QCC2210K405 | 220P 50V J SL TP |
| | C453 | QCN3310K518 | 330P 50V K B TA26 |
| | C454 | QCN3310K518 | 330P 50V K B TA26 |
| | C455 | QCE1076D618 | 100M SMS 10V M FM5 TP(5) |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | C456 | QCQ1231N409 | 0.012U 100V J POLY TP |
| | C457 | QCQ4731N409 | 0.047U 100V J POLY TP |
| | C458 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C460 | QCN5920F668 | 3900P 16V M X TA26 |
| | C461 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C462 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C463 | QCE6846K618 | 0.68M SMS 50V M FL TP(5) |
| | C464 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C465 | QCE3346K618 | 0.33M SMS 50V M FL TP(5) |
| | C466 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C467 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C468 | QCK1020K945 | 1000P 50V Z F TS |
| | C469 | QCN1510K518 | 150P 50V K B TA26 |
| | C470 | QCC2210K405 | 220P 50V J SL TP |
| | C471 | QCC3000K415 | 30P 50V J NPO TP |
| | C472 | QCN8210K518 | 820P 50V K B TA26 |
| | C479 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C481 | QCN1010K518 | 100P 50V K B TA26 |
| | C482 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C483 | QCN5610K518 | 560P 50V K B TA26 |
| | C485 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C486 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C487 | QCE4766F618 | 47M SMS 16V M FL TP(5) |
| | C488 | QCE4766F618 | 47M SMS 16V M FL TP(5) |
| | C489 | QCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C490 | QCE1076F618 | 100M SMS 16V M FM5 TP(5) |
| | C491 | QCQ2231N409 | 0.022U 100V J POLY TP |
| | C492 | QCQ2231N409 | 0.022U 100V J POLY TP |
| | C493 | QCQ1231N409 | 0.012U 100V J POLY TP |
| | C494 | QCQ1231N409 | 0.012U 100V J POLY TP |
| | C495 | QCN10-0K948 | 0.1UF 50V Z F TA26 |
| | C496 | QCQ1221N409 | 0.0012U 100V J POLY TP |
| | C497 | QCQ2721N409 | 0.0027M 100V J POLY TP |
| | C498 | QCE3366F618 | 33M SMS 16V M FL TP(5) |
| | C500 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C801 | QCE4766D618 | 47M SMS 10V M FL TP(5) |
| | C802 | QCN4720F668 | 4700P 16V M X TA26 |
| | C803 | QCX0100K618 | 1P 50V M NPO TA26 |
| | C804 | QCQ1041N409 | 0.1U 100V J POLY TP |
| | C805 | QCN4710K518 | 470P 50V K B TA26 |
| | C806 | QCQ1041N409 | 0.1U 100V J POLY TP |
| | C807 | QCN2220F668 | 2200P 16V M X TA26 |
| | C808 | QCQ4731N409 | 0.047U 100V J POLY TP |
| | C809 | QCN6820F668 | 6800P 16V M X TA26 |
| | C810 | QCE3346K618 | 0.33M SMS 50V M FL TP(5) |
| | C811 | QCK1040K945 | 0.1UF 50V Z F TS |
| | C812 | QCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C813 | QCQ6831N409 | 0.068U 100V J POLY TP |
| | C814 | QCX4700K408 | 47P 50V J SL TA26 |
| | C815 | QCK1040K945 | 0.1UF 50V Z F TS |
| | C816 | QCE4746K618 | 0.47M SMS 50V M FL TP(5) |
| | C817 | QCN1030F678 | 0.01M 16V M Y TA26 |
| | C818 | QCQ3331N409 | 0.033U 100V J POLY TP |
| | C819 | QCN1030F678 | 0.01M 16V M Y TA26 |
| | C820 | QCK1040K945 | 0.1UF 50V Z F TS |
| | C821 | QCE3366F618 | 33M SMS 16V M FL TP(5) |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | C822 | QCN1030F678 | 0.01M 16V M Y TA26 |
| | C823 | QCN1030F678 | 0.01M 16V M Y TA26 |
| | C824 | QCN1030F678 | 0.01M 16V M Y TA26 |
| | C825 | QCQ1041N409 | 0.1U 100V J POLY TP |
| | C826 | QCQ1041N409 | 0.1U 100V J POLY TP |
| | C827 | QCQ1041N409 | 0.1U 100V J POLY TP |
| | C828 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C829 | QCE3366F618 | 33M SMS 16V M FL TP(5) |
| | C830 | QCQ3331N409 | 0.033U 100V J POLY TP |
| | C831 | QCE4746K618 | 0.47M SMS 50V M FL TP(5) |
| | C832 | QCN1030F678 | 0.01M 16V M Y TA26 |
| | C833 | QCN1020K518 | 1000P 50V K B TA26 |
| | C834 | QCE4766D618 | 47M SMS 10V M FL TP(5) |
| | C835 | QCN1030F678 | 0.01M 16V M Y TA26 |
| | C836 | QCK1040K945 | 0.1UF 50V Z F TS |
| | C837 | QCE1076D618 | 100M SMS 10V M FM5 TP(5) |
| | C838 | QCK1040K945 | 0.1UF 50V Z F TS |
| | C839 | QCE3376F618 | 330M SMS 16V M FM5 TP5 |
| | C840 | QCK1040K945 | 0.1UF 50V Z F TS |
| | C841 | QCK1040K945 | 0.1UF 50V Z F TS |
| | C842 | QCK1040K945 | 0.1UF 50V Z F TS |
| | C843 | QCE1076F618 | 100M SMS 16V M FM5 TP(5) |
| | ZD802 | QDZ750009DD | MTZ7.5C-T-77 ROHM-K |
| | ZD803 | QDZ750009DD | MTZ7.5C-T-77 ROHM-K |
| | C844 | QCN1030F678 | 0.01M 16V M Y TA26 |
| | C845 | QCN1030F678 | 0.01M 16V M Y TA26 |
| | C846 | QCK1040K945 | 0.1UF 50V Z F TS |
| | C855 | QCK4730K945 | 0.047U 50V Z F TS |
| | C856 | QCE1076D618 | 100M SMS 10V M FM5 TP(5) |
| | C857 | QCE3376F618 | 330M SMS 16V M FM5 TP5 |
| | C858 | QCX3900K408 | 39P 50V J SL TA26 |
| | C859 | QCX3900K408 | 39P 50V J SL TA26 |
| | C860 | QCQ4731N409 | 0.047U 100V J POLY TP |
| | C861 | QCN1520F568 | 1500P 16V K X TA26 |
| | C862 | QCE1076D618 | 100M SMS 10V M FM5 TP(5) |
| | C863 | QCN4720F668 | 4700P 16V M X TA26 |
| | C864 | QCN1030F678 | 0.01M 16V M Y TA26 |
| | C865 | QCK1040K945 | 0.1UF 50V Z F TS |
| | C866 | QCK1040K945 | 0.1UF 50V Z F TS |
| | C867 | QCE1076D618 | 100M SMS 10V M FM5 TP(5) |
| | C868 | QCN1020K518 | 1000P 50V K B TA26 |
| | C869 | QCN1030F678 | 0.01M 16V M Y TA26 |
| | C870 | QCE4766D618 | 47M SMS 10V M FL TP(5) |
| | C871 | QCN1220F668 | 1200P 16V M X TA26 |
| | C872 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C873 | QCX4R70K518 | 4.7P 50V K NP0 TA26 |
| | C874 | QCN1030F678 | 0.01M 16V M Y TA26 |
| | C875 | QCN1020K518 | 1000P 50V K B TA26 |
| | C876 | QCN1220F668 | 1200P 16V M X TA26 |
| | C877 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C878 | QCX4R70K518 | 4.7P 50V K NP0 TA26 |
| | C879 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C880 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C881 | QCN1510K518 | 150P 50V K B TA26 |
| | C882 | QCN1510K518 | 150P 50V K B TA26 |
| | C883 | QCN5610K518 | 560P 50V K B TA26 |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | C884 | QCN5610K518 | 560P 50V K B TA26 |
| | C891 | QCE3376F618 | 330M SMS 16V M FM5 TP5 |
| | C892 | QCE2266F618 | 22M SMS 16V M FM5 TP(5) |
| | C893 | QCE3376F618 | 330M SMS 16V M FM5 TP5 |

## RESISTORS

| | | | |
|---|---|---|---|
| | R201 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R203 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R204 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R205 | QRD2701F608 | 2.7K 1/6W 5 TA26 |
| | R208 | QRD0101F608 | 1.0 1/6W 5 TA26 |
| | R209 | QRD0101F608 | 1.0 1/6W 5 TA26 |
| | R210 | QRD5600F608 | 560 1/6W 5 TA26 |
| | R211 | QRD4702F608 | 47K 1/6W 5 TA26 |
| | R212 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R213 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R214 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R215 | QRD8200F608 | 820 1/6W 5 TA26 |
| | R218 | QRD1500F608 | 150 1/6W 5 TA26 |
| | R219 | QRD1500F608 | 150 1/6W 5 TA26 |
| | R220 | QRD0222F608 | 22 1/6W 5 TA26 |
| | R221 | QRD1202F608 | 12K 1/6W 5 TA26 |
| | R222 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R223 | QRD8200F608 | 820 1/6W 5 TA26 |
| | R224 | QRD1802F608 | 18K 1/6W 5 TA26 |
| | R225 | QRD1802F608 | 18K 1/6W 5 TA26 |
| | R226 | QRD1802F608 | 18K 1/6W 5 TA26 |
| | R227 | QRD1802F608 | 18K 1/6W 5 TA26 |
| | R229 | QRD2201F608 | 2.2K 1/6W 5 TA26 |
| | R230 | QRD2702F608 | 27K 1/6W 5 TA26 |
| | R231 | QRD1502F608 | 15K 1/6W 5 TA26 |
| | R232 | QRD8201F608 | 8.2K 1/6W 5 TA26 |
| | R233 | QRD4701F608 | 4.7K 1/6W 5 TA26 |
| | R234 | QRD3301F608 | 3.3K 1/6W 5 TA26 |
| | R235 | QRD2201F608 | 2.2K 1/6W 5 TA26 |
| | R236 | QRD1501F608 | 1.5K 1/6W 5 TA26 |
| | R237 | QRD1201F608 | 1.2K 1/6W 5 TA26 |
| | R238 | QRD8200F608 | 820 1/6W 5 TA26 |
| | R239 | QRD6800F608 | 680 1/6W 5 TA26 |
| | R240 | QRD4701F608 | 4.7K 1/6W 5 TA26 |
| | R241 | QRD3301F608 | 3.3K 1/6W 5 TA26 |
| | R242 | QRD2201F608 | 2.2K 1/6W 5 TA26 |
| | R243 | QRD1501F608 | 1.5K 1/6W 5 TA26 |
| | R244 | QRD1201F608 | 1.2K 1/6W 5 TA26 |
| | R245 | QRD8200F608 | 820 1/6W 5 TA26 |
| | R246 | QRD6800F608 | 680 1/6W 5 TA26 |
| | R248 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R249 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R251 | QRD4702F608 | 47K 1/6W 5 TA26 |
| | R252 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R253 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R254 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R256 | QRD1202F608 | 12K 1/6W 5 TA26 |
| | R257 | QRD4702F608 | 47K 1/6W 5 TA26 |
| | R258 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R259 | QRD1001F608 | 1.0K 1/6W 5 TA26 |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | R260 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R261 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R262 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R263 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R264 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R265 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R266 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R267 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R268 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R269 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R270 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R271 | ORD1802F608 | 18K 1/6W 5 TA26 |
| | R272 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R273 | ORD3902F608 | 39K 1/6W 5 TA26 |
| | R274 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R275 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R276 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R277 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R278 | ORD1802F608 | 18K 1/6W 5 TA26 |
| | R279 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R280 | ORD3902F608 | 39K 1/6W 5 TA26 |
| | R281 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R282 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R283 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R284 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R285 | ORD1802F608 | 18K 1/6W 5 TA26 |
| | R286 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R287 | ORD3902F608 | 39K 1/6W 5 TA26 |
| | R288 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R289 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R290 | ORD1802F608 | 18K 1/6W 5 TA26 |
| | R291 | ORD1102F608 | 11K 1/6W 5% TA26 |
| | R292 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R293 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R294 | ORD1202F608 | 12K 1/6W 5 TA26 |
| | R295 | ORD1202F608 | 12K 1/6W 5 TA26 |
| | R296 | ORD1202F608 | 12K 1/6W 5 TA26 |
| | R297 | ORD1202F608 | 12K 1/6W 5 TA26 |
| | R401 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R402 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R403 | ORD1500F608 | 150 1/6W 5 TA26 |
| | R404 | ORD3903F608 | 390K 1/6W 5 TA26 |
| | R405 | ORD1202F608 | 12K 1/6W 5 TA26 |
| | R406 | ORD1202F608 | 12K 1/6W 5 TA26 |
| | R407 | ORD2201F608 | 2.2K 1/6W 5 TA26 |
| | R408 | ORD5601F608 | 5.6K 1/6W 5 TA26 |
| | R409 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R410 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R412 | ORD5601F608 | 5.6K 1/6W 5 TA26 |
| | R414 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R415 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R416 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R417 | ORD5602F608 | 56K 1/6W 5 TA26 |
| | R418 | ORD1202F608 | 12K 1/6W 5 TA26 |
| | R420 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R422 | ORD4702F608 | 47K 1/6W 5 TA26 |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | R423 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R424 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R425 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R426 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R441 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R446 | ORD2201F608 | 2.2K 1/6W 5 TA26 |
| | R447 | ORD4302F608 | 43K 1/6W 5 TA26 |
| | R451 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R452 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R453 | ORD1500F608 | 150 1/6W 5 TA26 |
| | R454 | ORD3903F608 | 390K 1/6W 5 TA26 |
| | R455 | ORD1202F608 | 12K 1/6W 5 TA26 |
| | R456 | ORD1202F608 | 12K, 1/6W 5 TA26 |
| | R457 | ORD2201F608 | 2.2K 1/6W 5 TA26 |
| | R458 | ORD5601F608 | 5.6K 1/6W 5 TA26 |
| | R459 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R460 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R461 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R462 | ORD5601F608 | 5.6K 1/6W 5 TA26 |
| | R464 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R465 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R466 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R467 | ORD5602F608 | 56K 1/6W 5 TA26 |
| | R468 | ORD1202F608 | 12K 1/6W 5 TA26 |
| | R470 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R474 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R475 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R476 | ORD6802F608 | 68K 1/6W 5 TA26 |
| | R477 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R478 | ORD1803F608 | 180K 1/6W 5 TA26 |
| | R479 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R480 | ORD2402F608 | 24K 1/6W 5 TA26 |
| | R481 | ORD8203F608 | 820K 1/6W 5 TA26 |
| | R482 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R483 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R484 | ORD1000F608 | 100 1/6W 5 TA26 |
| | R485 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R486 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R487 | ORD2200F608 | 220 1/6W 5 TA26 |
| | R488 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R491 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R492 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R493 | ORD0102F608 | 10 1/6W 5 TA26 |
| | R494 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R497 | ORD5601F608 | 5.6K 1/6W 5 TA26 |
| | R498 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R801 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R802 | 672-001A | TIN WIRE |
| | R803 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R804 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R805 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R806 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R807 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R808 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R809 | ORD1503F608 | 150K 1/6W 5 TA26 |
| | R810 | ORD1203F608 | 120K 1/6W 5 TA26 |





| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | R811 | ORD5602F608 | 56K 1/6W 5 TA26 |
| | R812 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R813 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R814 | ORD6802F608 | 68K 1/6W 5 TA26 |
| | R815 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R816 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R817 | ORD6802F608 | 68K 1/6W 5 TA26 |
| | R818 | ORD6801F608 | 6.8K 1/6W 5 TA26 |
| | R819 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R820 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R821 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R822 | ORD4703F608 | 470K 1/6W 5 TA26 |
| | R823 | ORD2702F608 | 27K 1/6W 5 TA26 |
| | R824 | ORD1803F608 | 180K 1/6W 5 TA26 |
| | R825 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R826 | ORD1004F608 | 1.0M 1/6W 5 TA26 |
| | R833 | ORD0822F608 | 82 1/6W 5 TA26 |
| | R834 | ORD0472F608 | 47 1/6W 5 TA26 |
| | R835 | ORD0472F608 | 47 1/6W 5 TA26 |
| | R836 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R839 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R840 | ORD0102F608 | 10 1/6W 5 TA26 |
| | R841 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R842 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R845 | ORD3902F608 | 39K 1/6W 5 TA26 |
| | R847 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R848 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R849 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R850 | ORD1802F608 | 18K 1/6W 5 TA26 |
| | R851 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R852 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R854 | ORD1200F608 | 120 1/6W 5 TA26 |
| | R855 | ORD3301F608 | 3.3K 1/6W 5 TA26 |
| | R856 | ORD2702F608 | 27K 1/6W 5 TA26 |
| | R857 | ORD3301F608 | 3.3K 1/6W 5 TA26 |
| | R859 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R866 | ORD4700F608 | 470 1/6W 5 TA26 |
| | R867 | ORD4700F608 | 470 1/6W 5 TA26 |
| | R868 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R869 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R870 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R871 | ORD1202F608 | 12K 1/6W 5 TA26 |
| | R872 | ORD1004F608 | 1.0M 1/6W 5 TA26 |
| | R873 | ORD2702F608 | 27K 1/6W 5 TA26 |
| | R874 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R875 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R876 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R877 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R878 | ORD2702F608 | 27K 1/6W 5 TA26 |
| | R879 | ORD1004F608 | 1.0M 1/6W 5 TA26 |
| | R880 | ORD1202F608 | 12K 1/6W 5 TA26 |
| | R881 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R882 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R883 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R891 | ORD4700F608 | 470 1/6W 5 TA26 |
| | R892 | ORD4700F608 | 470 1/6W 5 TA26 |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | R893 | ORD5601F608 | 5.6K 1/6W 5 TA26 |
| | R894 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R895 | ORD0472F608 | 47 1/6W 5 TA26 |
| | R951 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R952 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R953 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R954 | ORD3301F608 | 3.3K 1/6W 5 TA26 |
| | R955 | ORD2201F608 | 2.2K 1/6W 5 TA26 |
| | R956 | ORD1501F608 | 1.5K 1/6W 5 TA26 |
| | R957 | ORD1201F608 | 1.2K 1/6W 5 TA26 |
| | R958 | ORD8200F608 | 820 1/6W 5 TA26 |
| | R959 | ORD6800F608 | 680 1/6W 5 TA26 |
| **COILS** | | | |
| | L201 | 0LA0102K018 | 10M K 2.3X3.4 L5 TP |
| | L202 | 0LA0102K018 | 10M K 2.3X3.4 L5 TP |
| | L401 | 637-008D | 10SKHZ TRAP 8RBC TOKO CAPCORE |
| | L402 | 637-008D | 10SKHZ TRAP 8RBC TOKO CAPCORE |
| | L451 | 637-008D | 10SKHZ TRAP 8RBC TOKO CAPCORE |
| | L452 | 637-008D | 10SKHZ TRAP 8RBC TOKO CAPCORE |
| | L490 | 634-610C | OSC TAPE 10(4.7MH) |
| **DISPLAY** | | | |
| | FL201 | 659-250T | 6BT-201GK.DIGITRON.FUTABA |
| **FILTERS** | | | |
| | X201 | 616-020P | CSA6.00MGU MURATA |
| | X801 | 616-020X | CSA16.93MX040.MURATA |
| **SWITCHES** | | | |
| | SW230 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW231 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW232 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW233 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW234 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW235 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW236 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW237 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW238 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW239 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW240 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW241 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW242 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW243 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW244 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW245 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW246 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW247 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW248 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW299 | 558-026I | TACT JTP-1236A BEL |
| | SW950 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW951 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW952 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW953 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW954 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW955 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW956 | 558T026A | TACT EVQ-114 04M H=4.3 TP |
| | SW957 | | TACT EVQ-114 04M H=4.3 TP |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | CA858 | 5S5T026A | TACT EVG-114 04M H=4.3 TP |
| | CA859 | 5S5T026A | TACT EVG-114 04M H=4.3 TP |

## VARIABLE RESISTORS

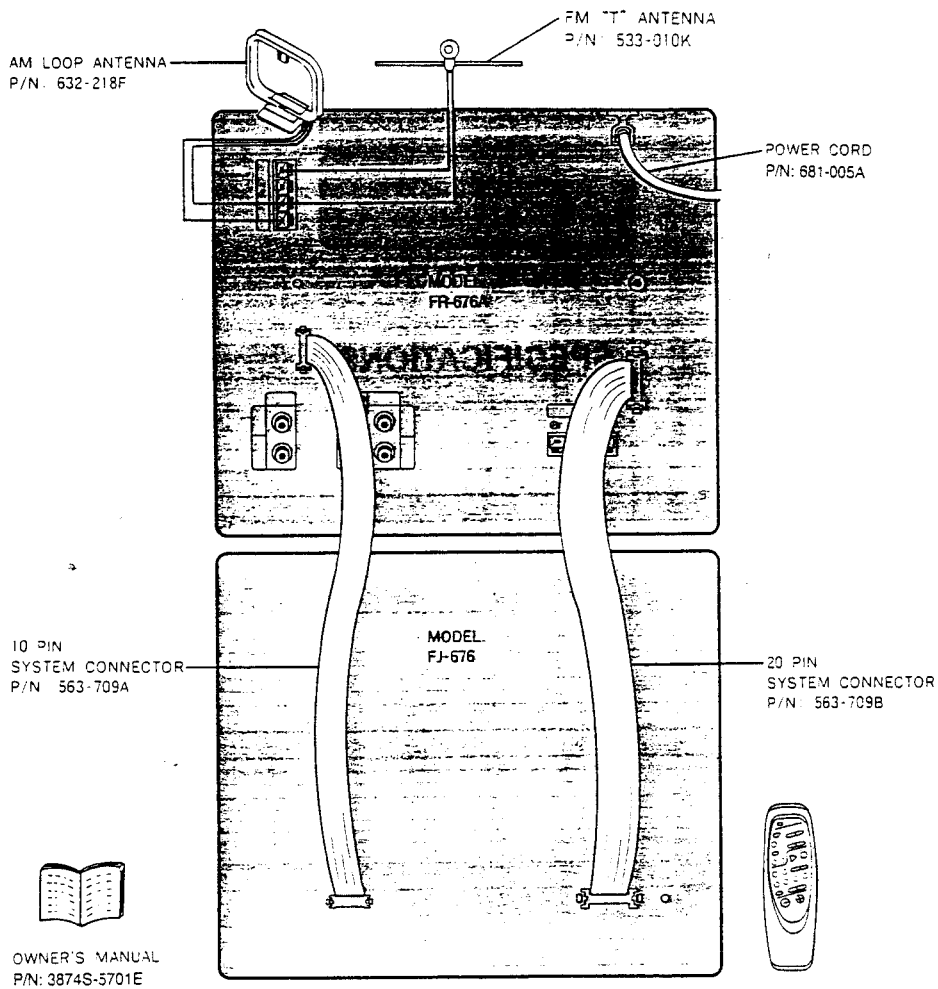
| | | | |
|---|---|---|---|
| | VR211 | 613S008A | EVN-D8N A02 BQ3 (4.7KB) STICK |
| | VR212 | 613S008C | EVN-D8N A02 BE3 (2.2KB) STICK |
| | VR220 | 613S008A | EVN-D8N A02 BQ3 (4.7KB) STICK |
| | VR221 | 613S008C | EVN-D8N A02 BE3 (2.2KB) STICK |
| | VR401 | 613S008A | EVN-D8N A02 BQ3 (4.7KB) STICK |
| | VR402 | 613S008D | EVN-D8N A02 B14 (10KB) STICK |
| | VR403 | 613S008E | EVN-D8N A02 BQ4 (47KB) STICK |
| | VR404 | 613S008G | EVN-D8N A02 B25 (200KB) STICK |
| | VR451 | 613S008A | EVN-D8N A02 BQ3 (4.7KB) STICK |
| | VR452 | 613S008D | EVN-D8N A02 B14 (10KB) STICK |
| | VR455 | 613S008E | EVN-D8N A02 BQ4 (47KB) STICK |
| | VR454 | 613S008G | EVN-D8N A02 B25 (200KB) STICK |
| | VR801 | 613S008J | EVA-D8N A02 BE4 (22KB) STICK |
| | VR802 | 613S008J | EVA-D8N A02 BE4 (22KB) STICK |
| | VR803 | 613S008J | EVA-D8N A02 BE4 (22KB) STICK |
| | VR804 | 613S008J | EVA-D8N A02 BE4 (22KB) STICK |

| S | LOCA.NO | PART NO(GS) | DESCRIPTION | SPECIFICATION | REMARKS |
|---|---|---|---|---|---|
| **MISCELLANEOUS** | | | | | |
| | | 3290S-0046A | BOX | FJ-575G KW1 | |
| | | 563-693B | CONNECTOR ASSY | 110 REC/D3.1RING 60 | |
| | | 563-709A | CONNECTOR ASSY | SYSTEM CNT 10P 500 DSP-1 | |
| | | 563-709B | CONNECTOR ASSY | SYSTEM CNT 20P 500 DSP-1 | |
| | | 671-903A | LEAD SET | FFC 20P DSP-1 | |
| | | 671-903C | LEAD SET | FFC 35P DSP-1 | |
| | | 6871S-21WAB | PWB ASSY | (FJ-676 DECK PART WG2) | |
| | | 6871S-21XAB | PWB ASSY | FJ-676 CD MAIN WG2 | |
| | | 6871SA21WAA | PWB ASSY | (DECK MAIN KW1) | |
| | | 6871SB21WAB | PWB ASSY | (FJ-676 FRONT WG2 INTRO SCAN) | |
| | | 6871SC21WAA | PWB ASSY | (DECK KEY) | |

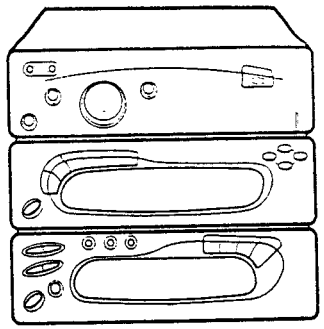




# ACCESSORIES



# STEREO RECEIVER (AMPLIFIER/TUNER)



**MODEL: FR-676A**

## SPECIFICATIONS

### 1. AMPLIFIER

① Output (6Ω, 2ch drive, THD 10%) ..... 50W + 50W
② Distortion ..... 0.05%
③ Frequency Response ..... 10~30,000Hz
④ Signal-to-noise Ratio ..... AUX: 85dB, PHONE: 70dB

### 2. TUNER

#### AM

① Frequency Range ..... 530~1,720kHz
② Intermediate Frequency ..... 450kHz
③ IF Rejection ..... 45dB
④ Selectivity ..... 25dB
⑤ Distortion ..... 2.0%
⑥ Frequency Response ..... 120~2,700Hz

#### FM

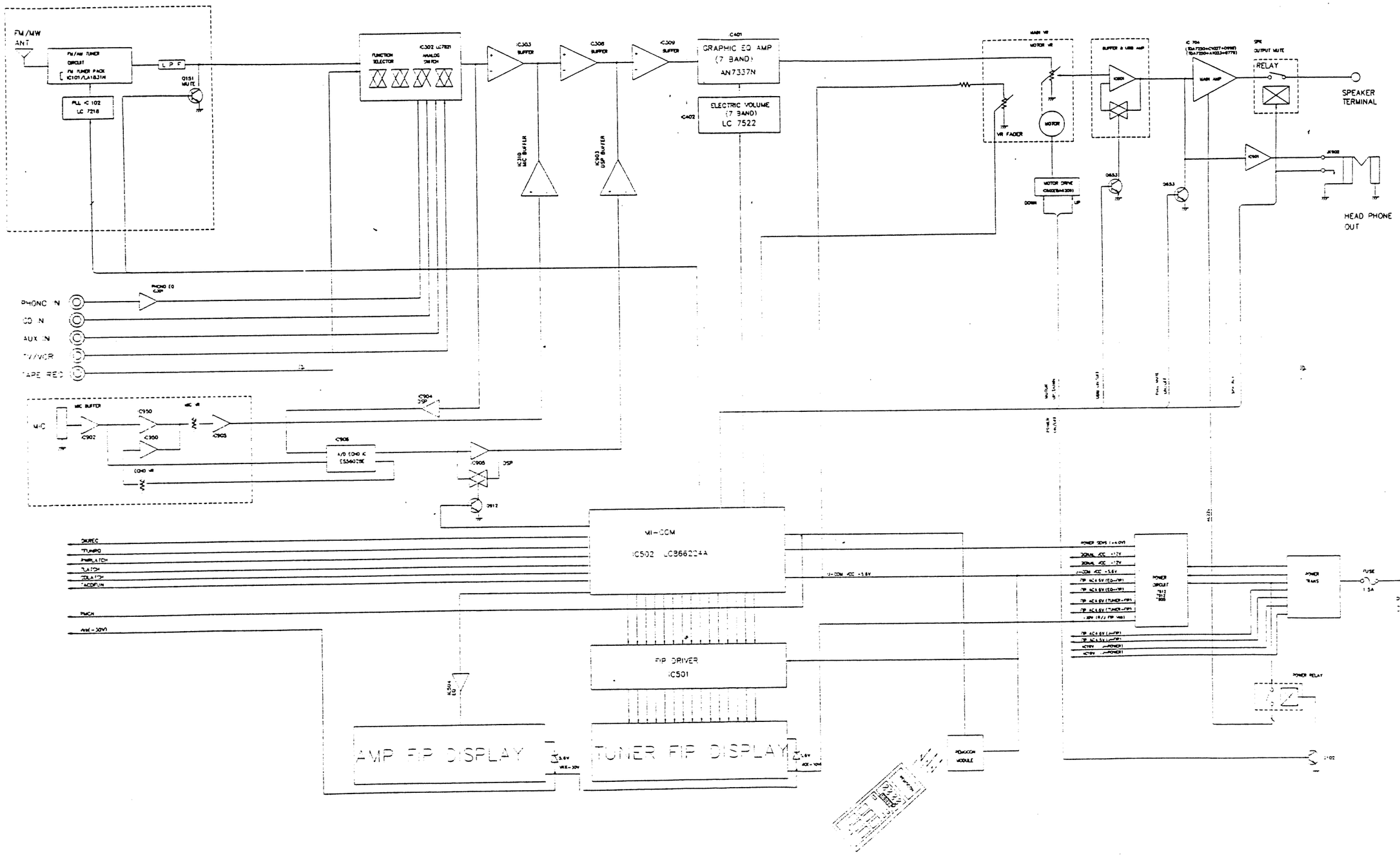
① Frequency Range ..... 87.5~108.0MHz
② Intermediate Frequency ..... 10.7MHz
③ Signal-to-noise Ratio (Mono/Stereo) ..... 70dB/60dB
④ Distortion (Mono/Stereo) ..... 0.6%/1.0%
⑤ Frequency Response ..... 40Hz~14,000Hz
⑥ Separation 100Hz/1kHz/10kHz ..... 40dB/40dB/33dB

### 3. GENERAL

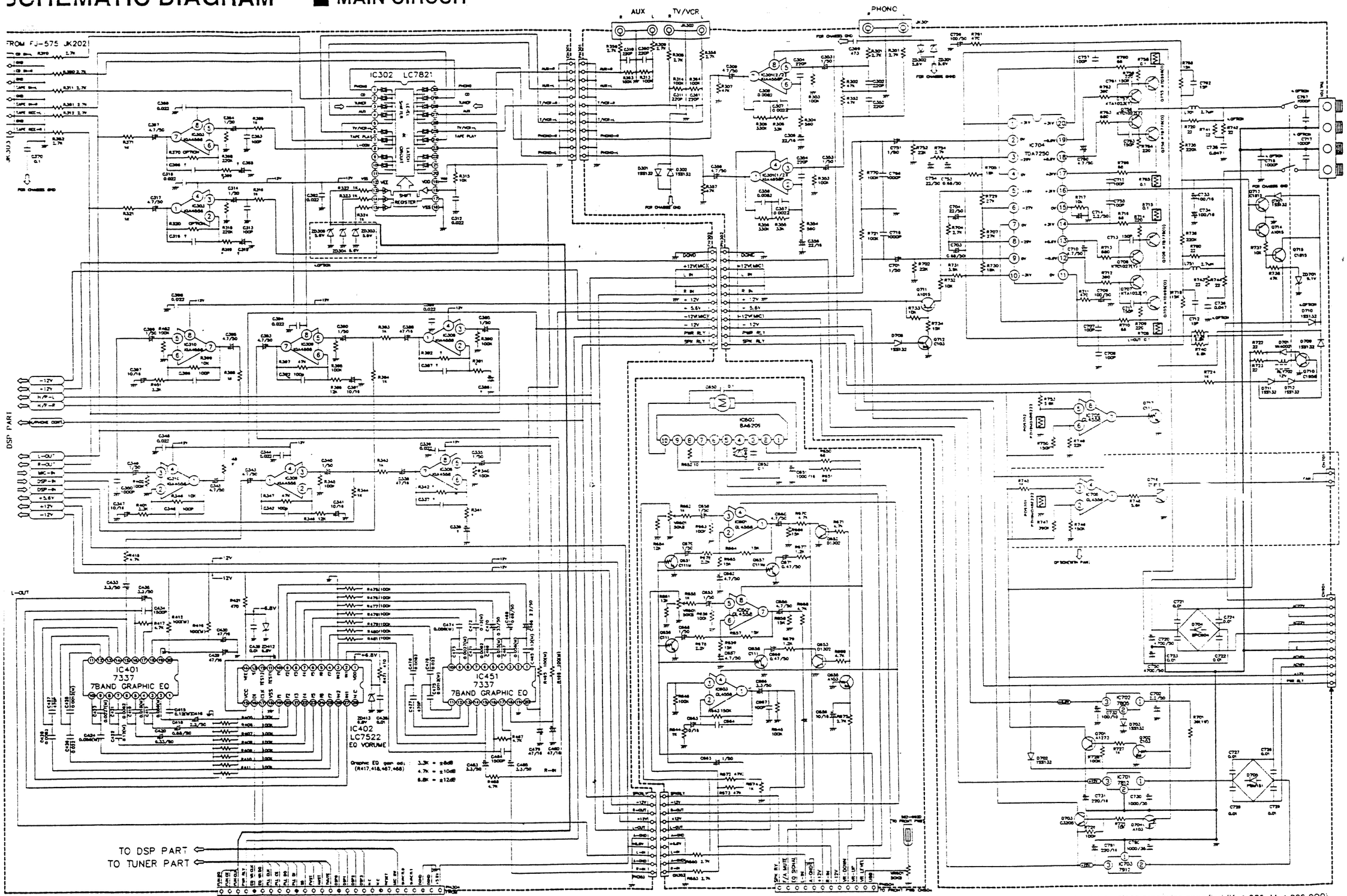
① Power Requirement ..... Refer to the back panel of unit.
② Dimension (Wx H x D) ..... 240 x 203 x 260mm
③ Weight ..... 6.1kg
④ Power Consumption ..... 180W

# BLOCK DIAGRAM

R – CHANNEL SAME AS L – CHANNEL

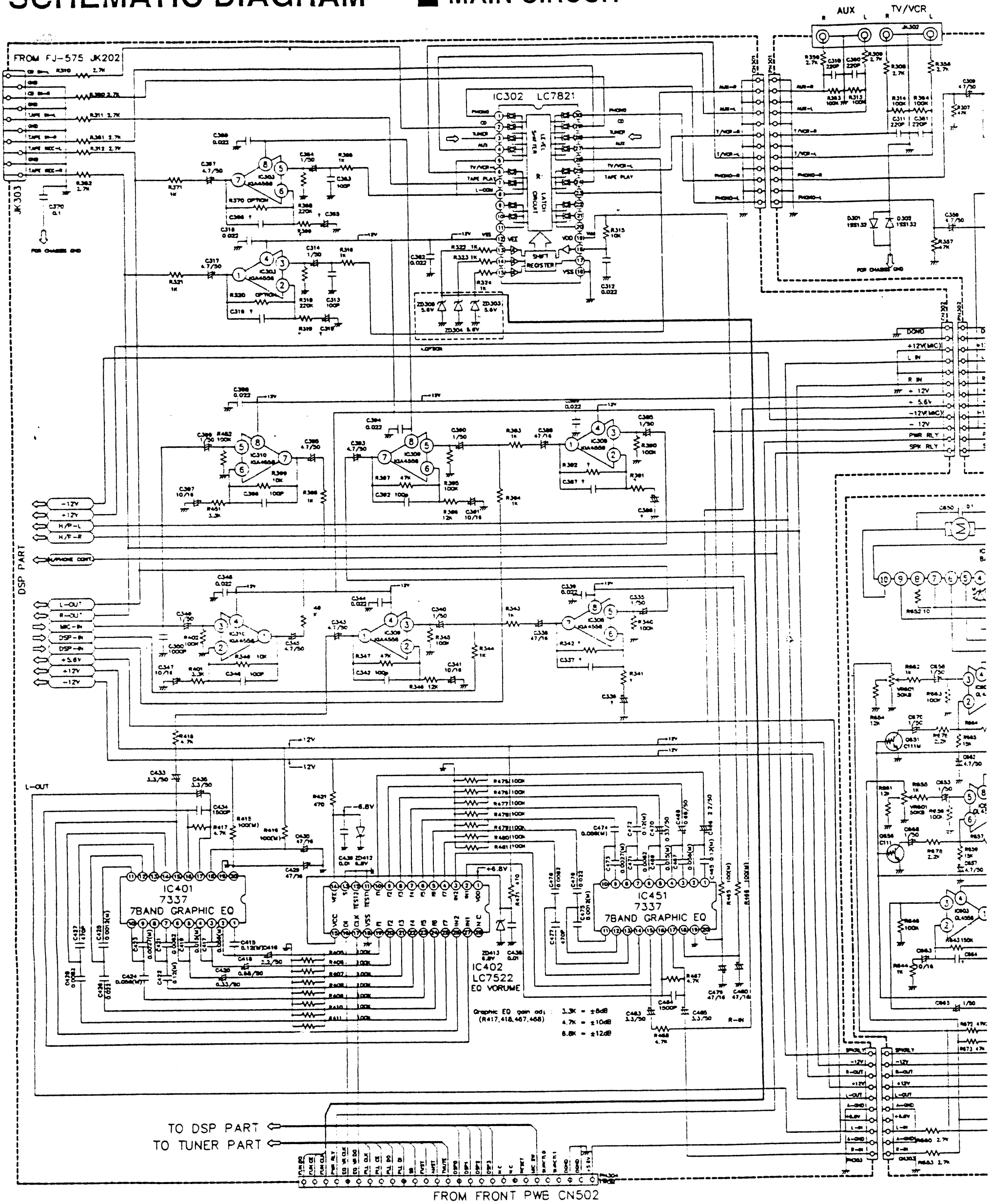


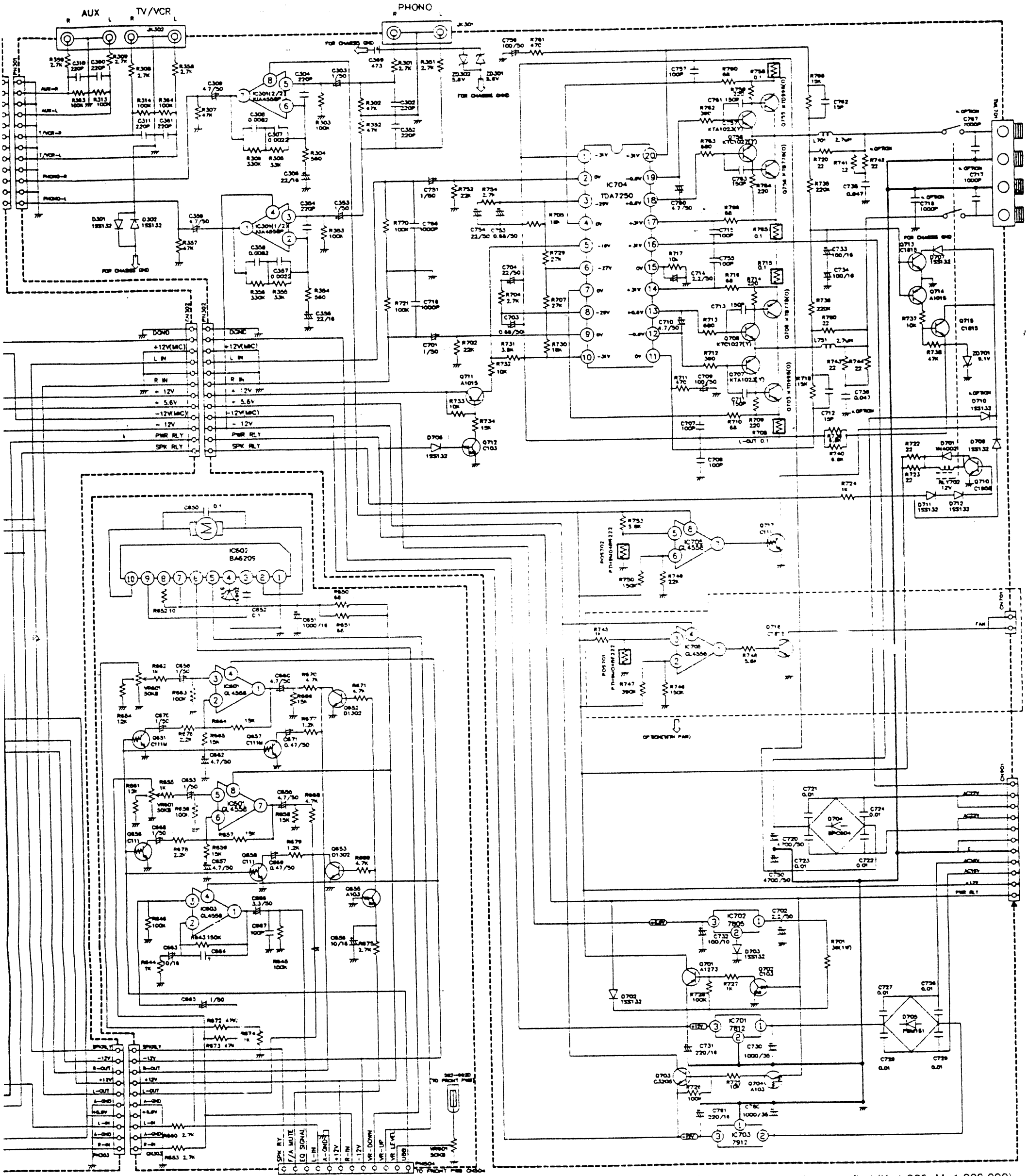
# SCHEMATIC DIAGRAM ■ MAIN CIRCUIT




NOTES: 1. Resistance values are indicated in ohms unless otherwise specified (K=1,000; M=1,000,000).
2. Capacitance values are shown in microfarads unless otherwise (P=MICRO-MICRO FARADS).
3. Schematic diagram for this model are subject to change for improvement without prior notice.

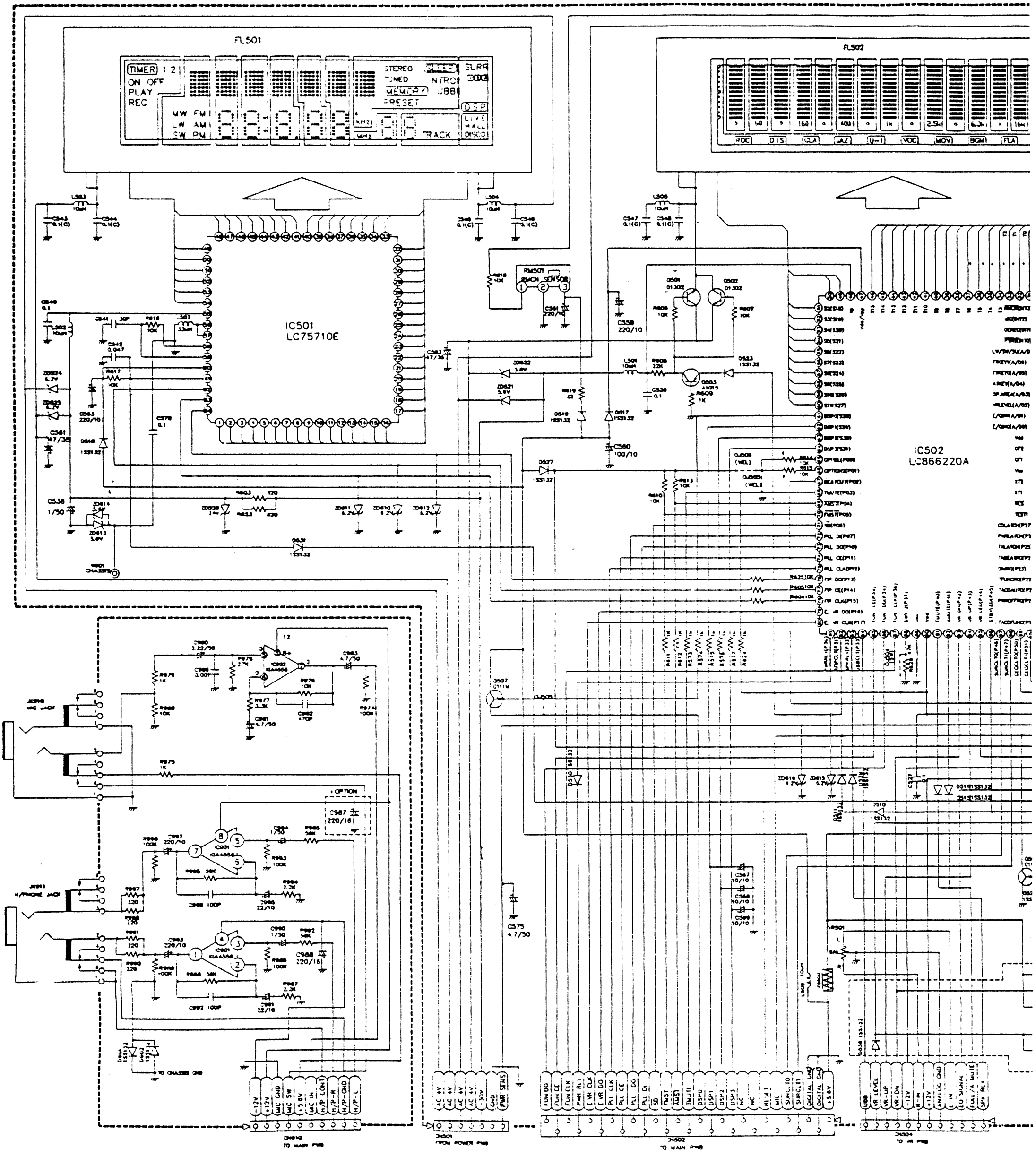
# SCHEMATIC DIAGRAM ■ MAIN CIRCUIT

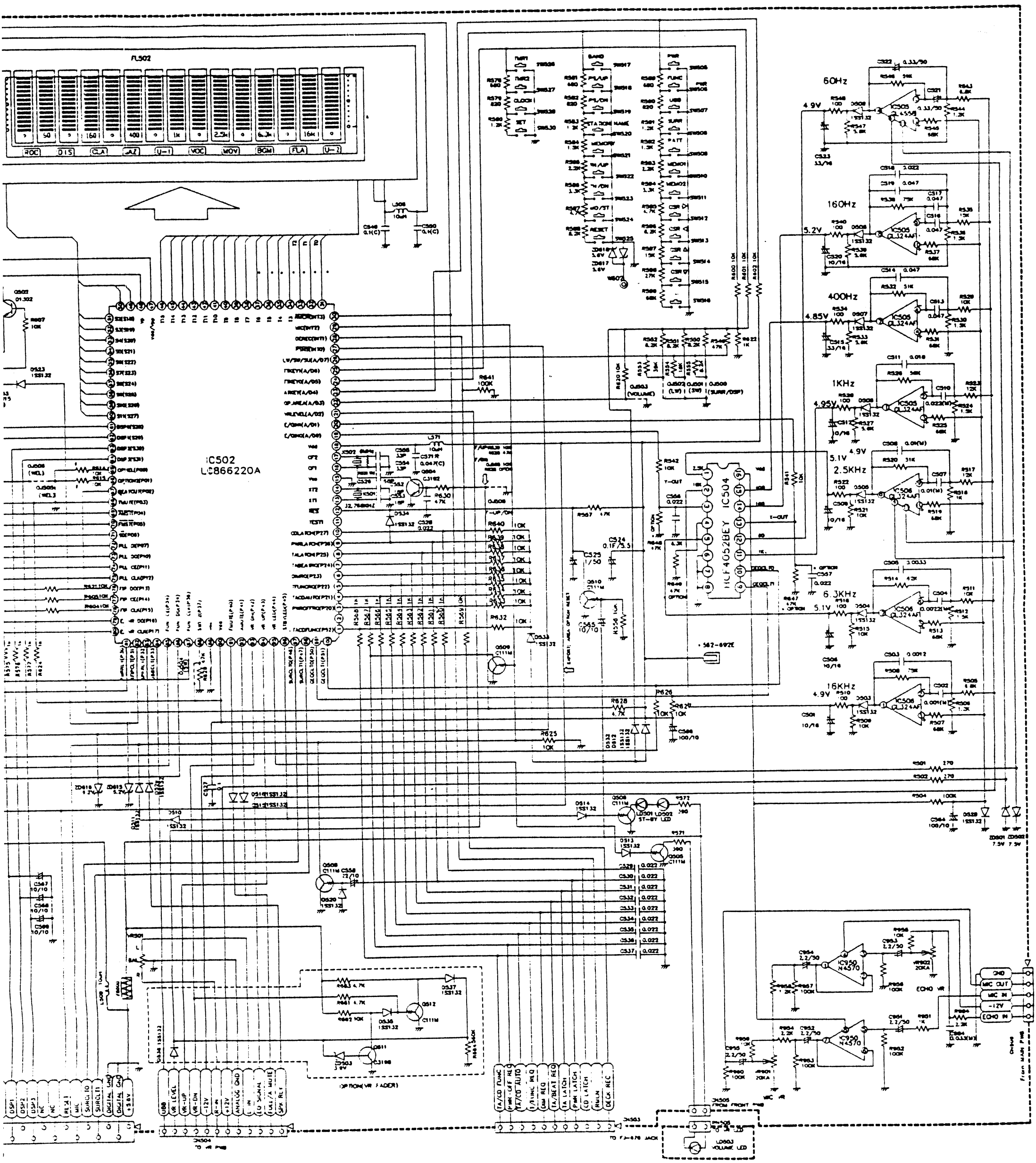





NOTES: 1. Resistance values are indicated in ohms unless otherwise specified (K=1,000, M=1,000,000).
2. Capacitance values are shown in microfarads unless otherwise (P=MICRO-MICRO FARADS).
3. Schematic diagram for this model are subject to change for improvement without prior notice.

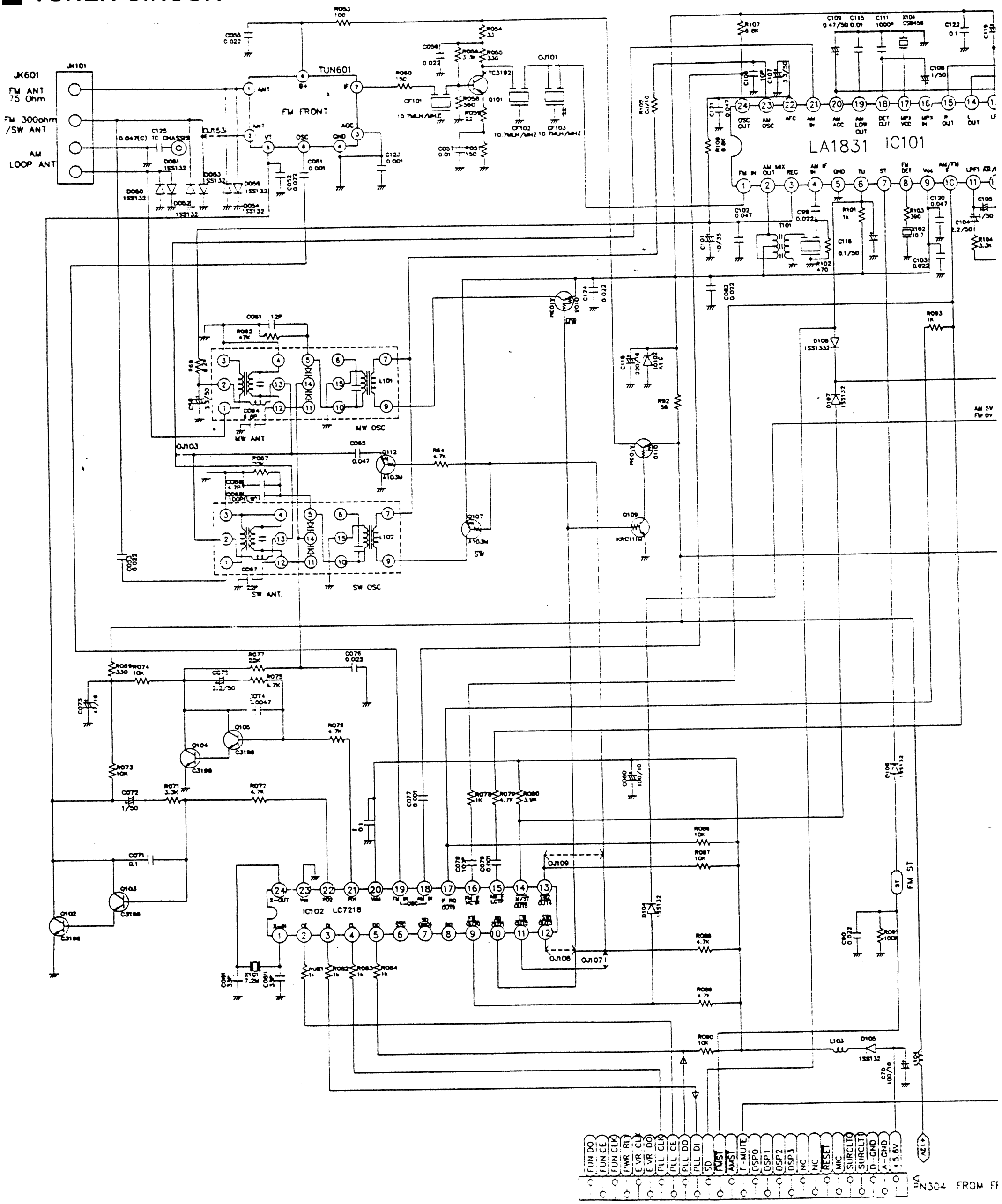
# ■ FRONT CIRCUIT

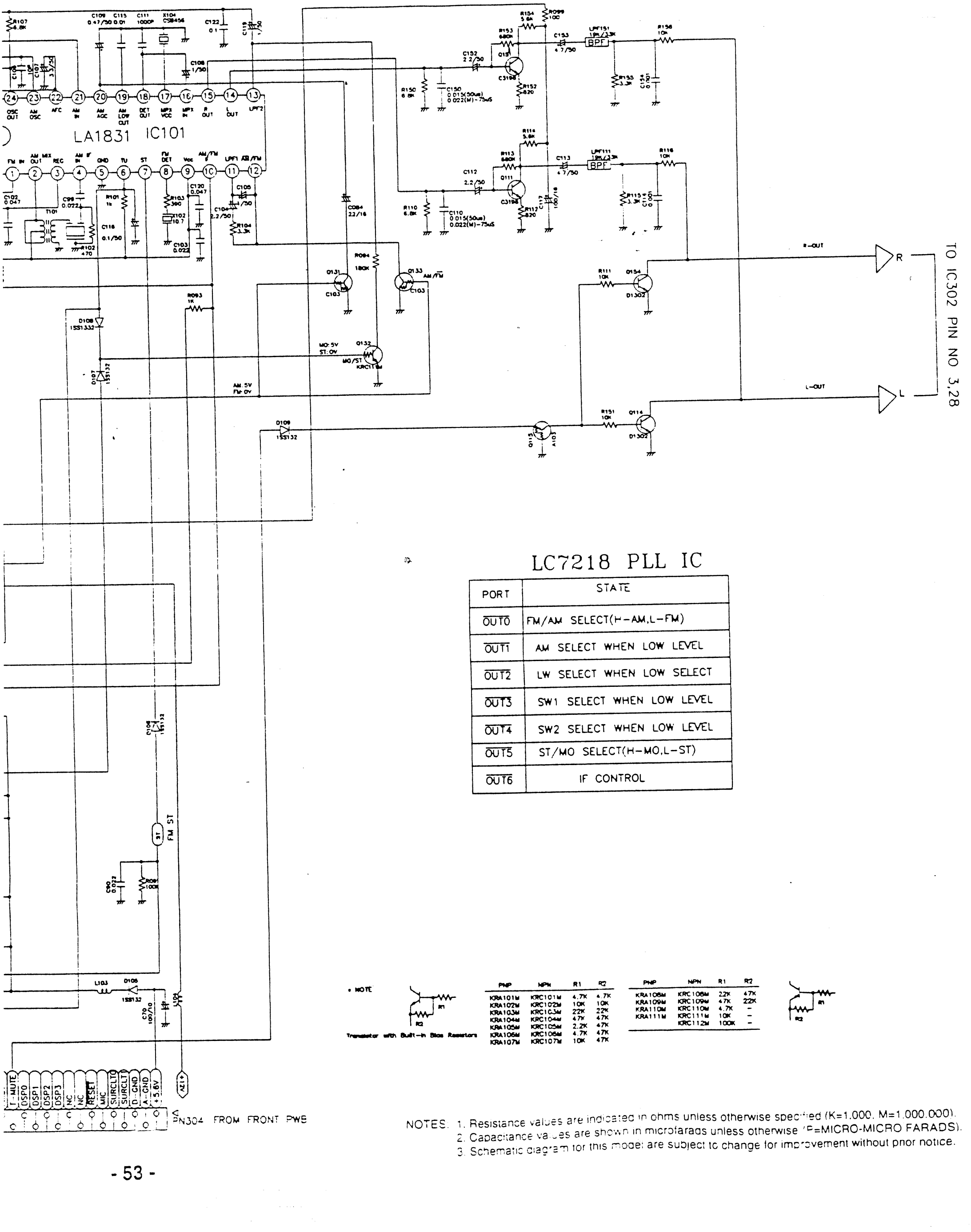





NOTES: 1. Resistance values are indicated in ohms unless otherwise specified (K=1,000, M=1,000,000).
2. Capacitance values are shown in microfarads unless otherwise (P=MICRO-MICRO FARADS).
3. Schematic diagram for this model are subject to change for improvement without prior notice.

# ■ TUNER CIRCUIT






## LC7218 PLL IC

| PORT | STATE |
|---|---|
| $\overline{OUT0}$ | FM/AM SELECT(H-AM,L-FM) |
| $\overline{OUT1}$ | AM SELECT WHEN LOW LEVEL |
| $\overline{OUT2}$ | LW SELECT WHEN LOW SELECT |
| $\overline{OUT3}$ | SW1 SELECT WHEN LOW LEVEL |
| $\overline{OUT4}$ | SW2 SELECT WHEN LOW LEVEL |
| $\overline{OUT5}$ | ST/MO SELECT(H-MO,L-ST) |
| $\overline{OUT6}$ | IF CONTROL |

* NOTE




Transistor with Built-in Bias Resistors

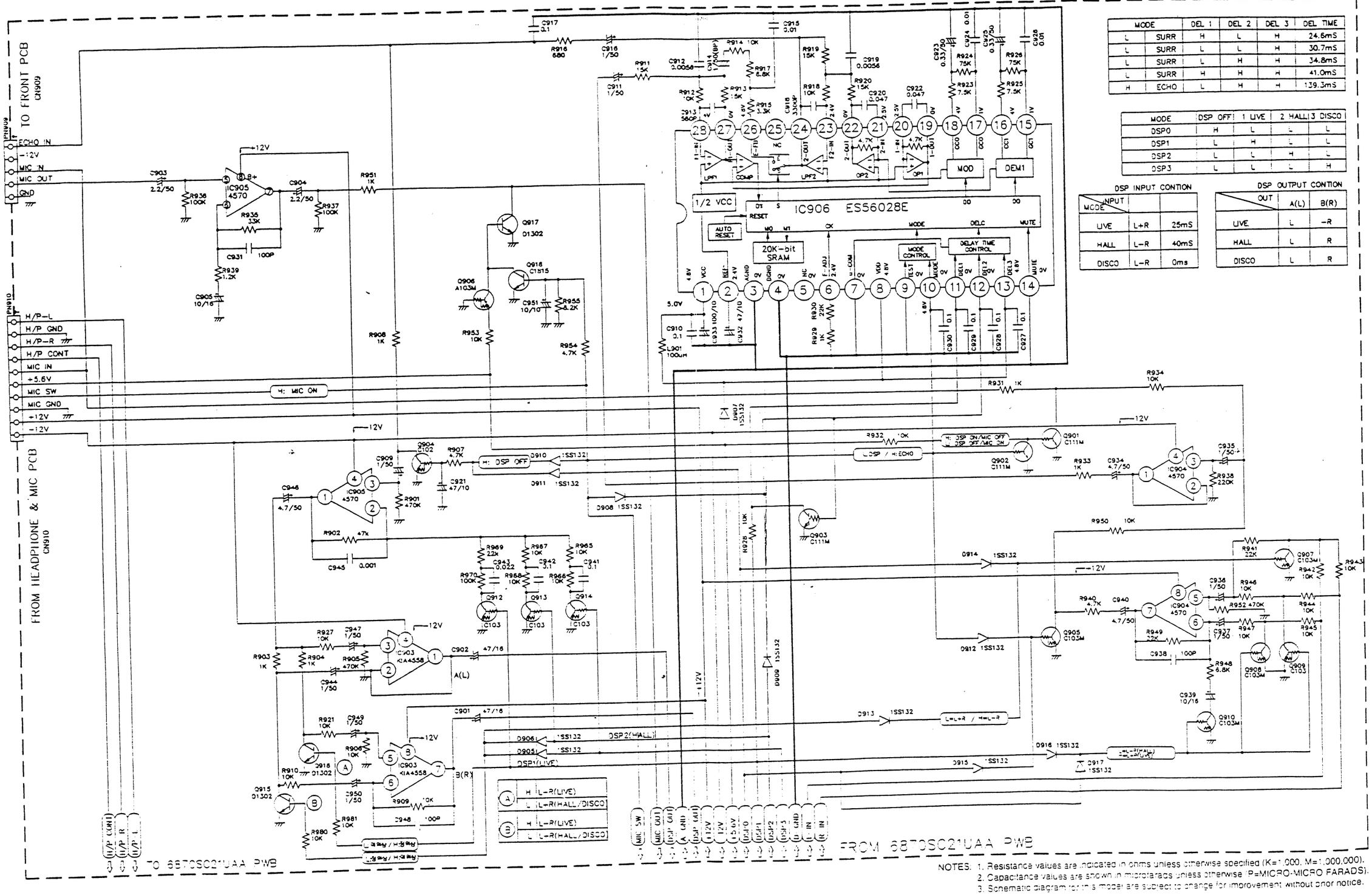
| PNP | NPN | R1 | R2 |
|---|---|---|---|
| KRA101M | KRC101M | 4.7K | 4.7K |
| KRA102M | KRC102M | 10K | 10K |
| KRA103M | KRC103M | 22K | 22K |
| KRA104M | KRC104M | 47K | 47K |
| KRA105M | KRC105M | 2.2K | 47K |
| KRA106M | KRC106M | 4.7K | 47K |
| KRA107M | KRC107M | 10K | 47K |

| PNP | NPN | R1 | R2 |
|---|---|---|---|
| KRA108M | KRC108M | 22K | 47K |
| KRA109M | KRC109M | 47K | 22K |
| KRA110M | KRC110M | 4.7K | – |
| KRA111M | KRC111M | 10K | – |
| | KRC112M | 100K | – |




NOTES. 1. Resistance values are indicated in ohms unless otherwise specified (K=1,000, M=1,000,000).
2. Capacitance values are shown in microfarads unless otherwise (P=MICRO-MICRO FARADS).
3. Schematic diagram for this model are subject to change for improvement without prior notice.

## ■ ECHO & DSP CIRCUIT




| MODE | | DEL 1 | DEL 2 | DEL 3 | DEL TIME |
|---|---|---|---|---|---|
| L | SURR | H | L | H | 24.6mS |
| L | SURR | L | L | H | 30.7mS |
| L | SURR | L | H | H | 34.8mS |
| L | SURR | H | H | H | 41.0mS |
| H | ECHO | L | H | H | 139.3mS |

| MODE | DSP OFF | 1 LIVE | 2 HALL | 3 DISCO |
|---|---|---|---|---|
| DSP0 | H | L | L | L |
| DSP1 | L | H | L | L |
| DSP2 | L | L | H | L |
| DSP3 | L | L | L | H |

DSP INPUT CONTION

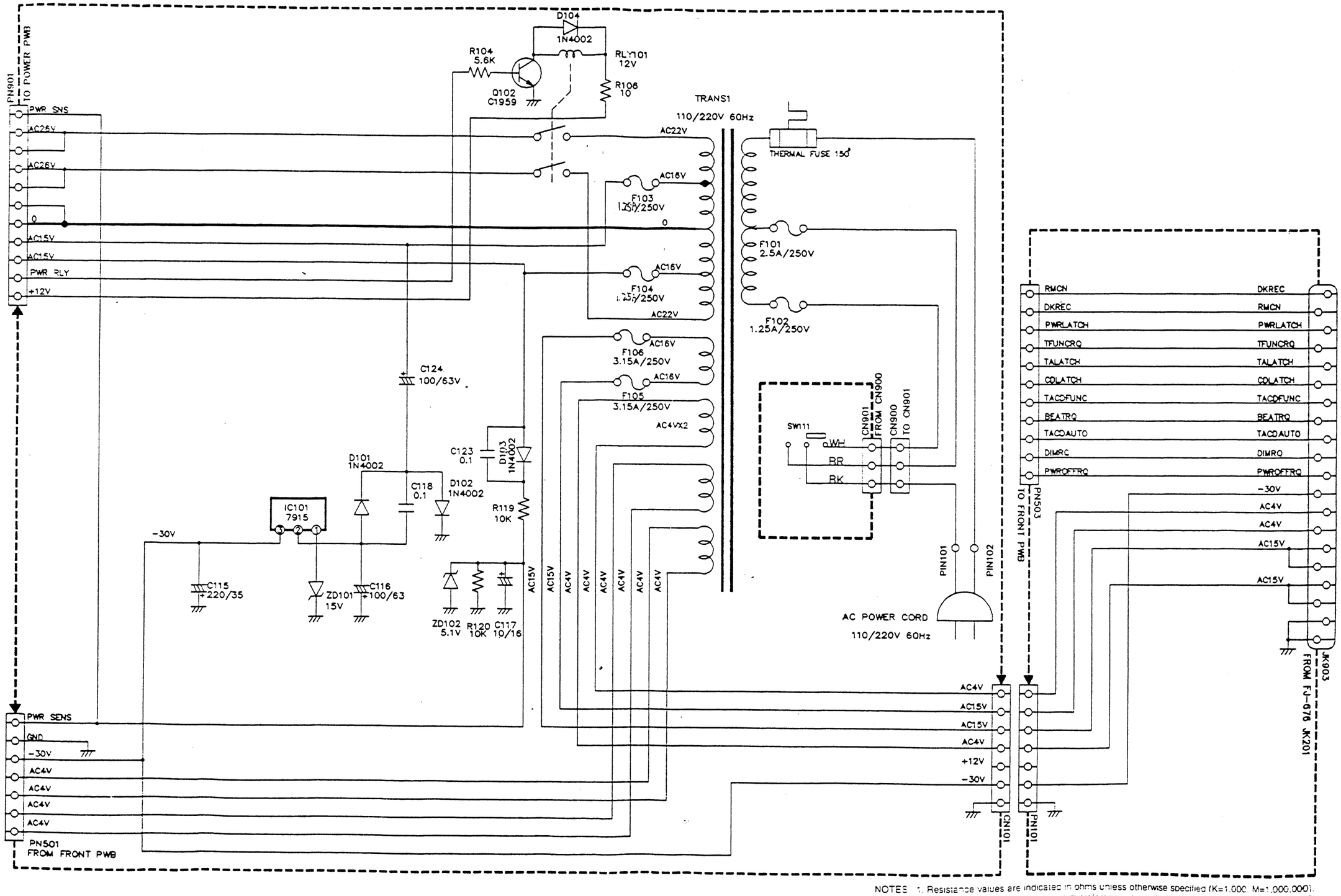
| MODE \ INPUT | | |
|---|---|---|
| LIVE | L+R | 25mS |
| HALL | L-R | 40mS |
| DISCO | L-R | 0ms |

DSP OUTPUT CONTION

| OUT | A(L) | B(R) |
|---|---|---|
| LIVE | L | -R |
| HALL | L | R |
| DISCO | L | R |

NOTES: 1. Resistance values are indicated in ohms unless otherwise specified (K=1,000, M=1,000,000).
2. Capacitance values are shown in microfarads unless otherwise P=MICRO-MICRO FARADS).
3. Schematic diagram for this model are subject to change for improvement without prior notice.

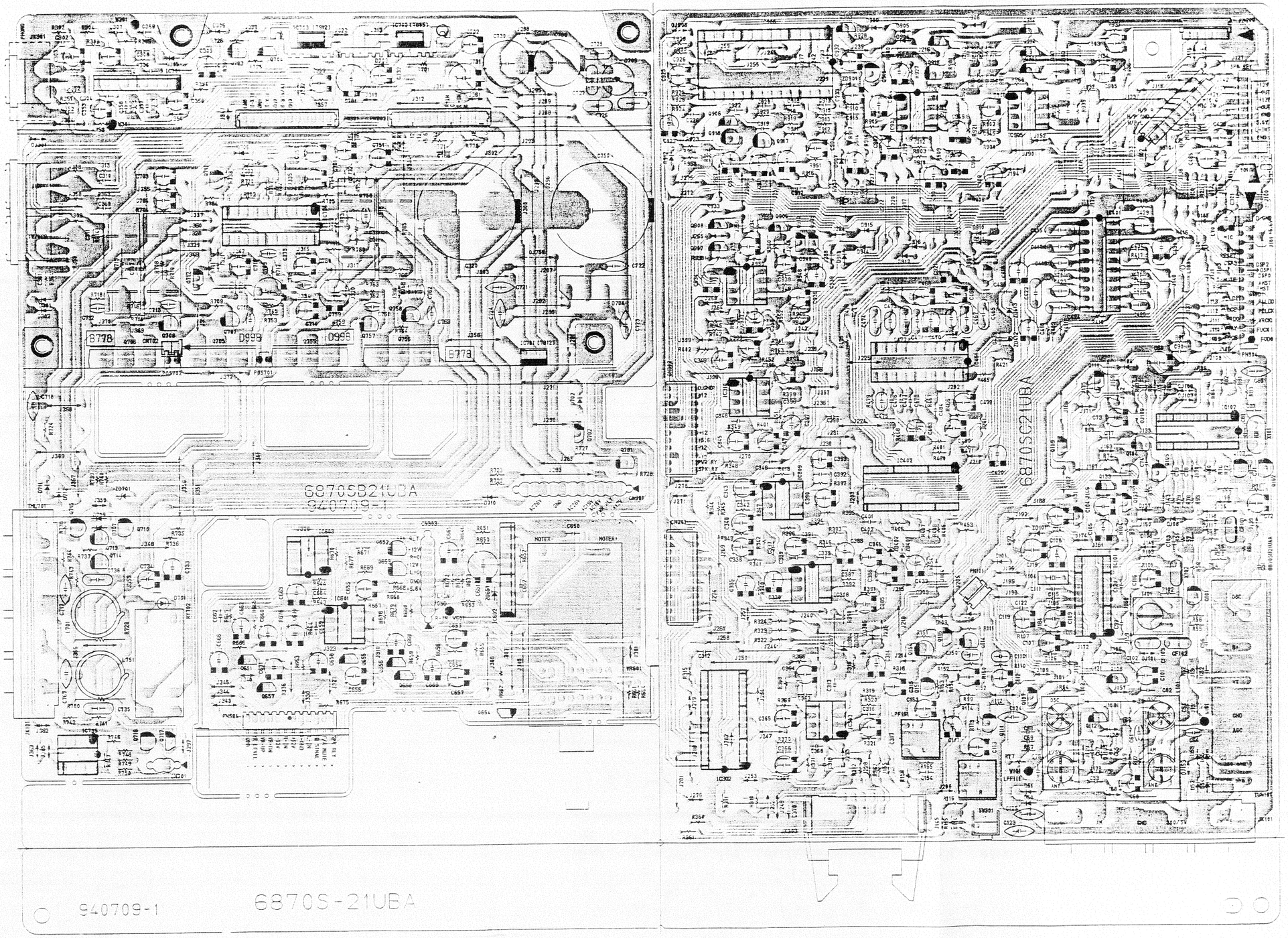
## ■ POWER CIRCUIT



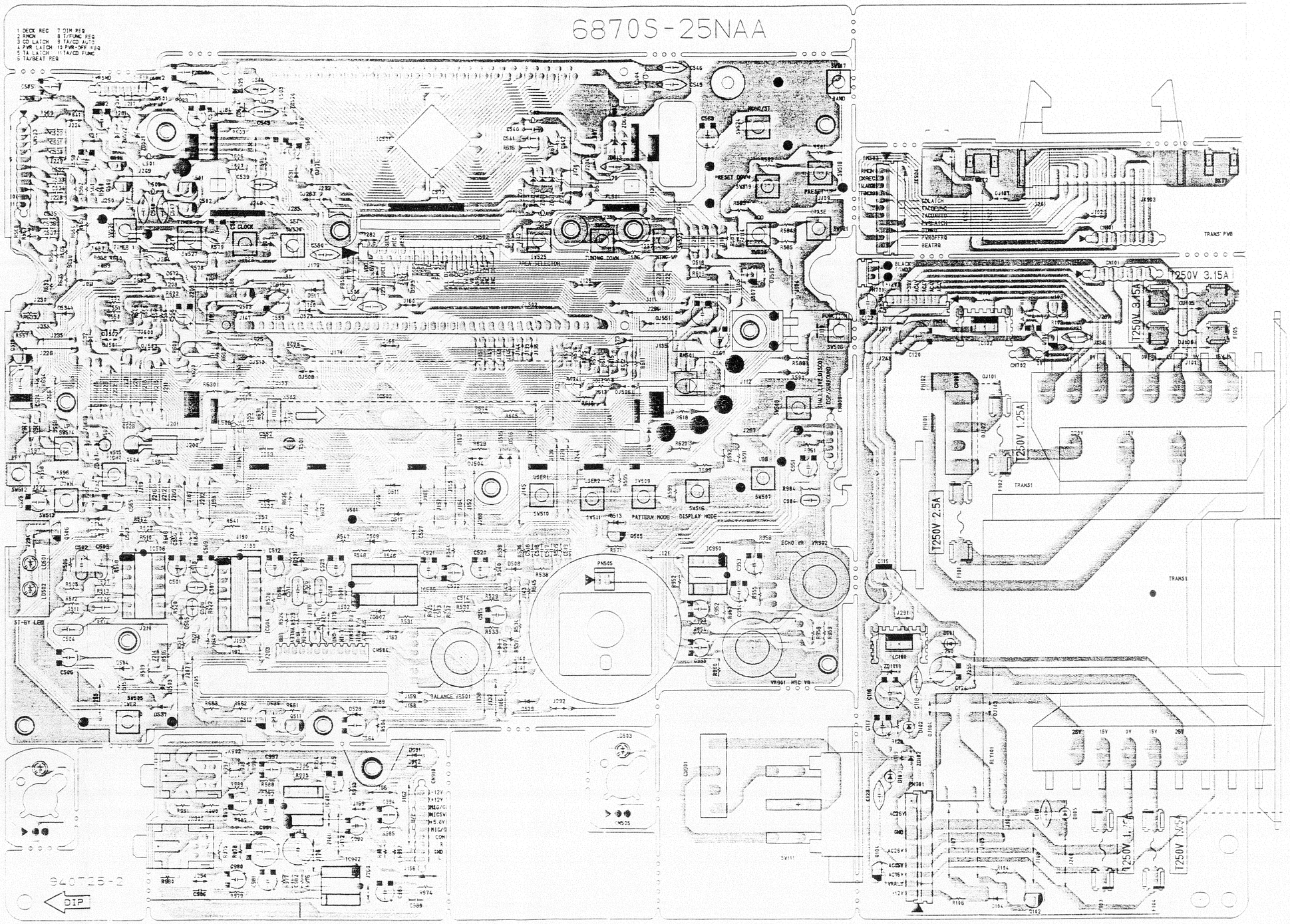

NOTES 1. Resistance values are indicated in ohms unless otherwise specified (K=1,000, M=1,000,000).
2. Capacitance values are shown in microfarads unless otherwise (P=MICRO-MICRO FARADS).
3. Schematic diagram for this model are subject to change for improvement without prior notice.

# PCB LAYOUT

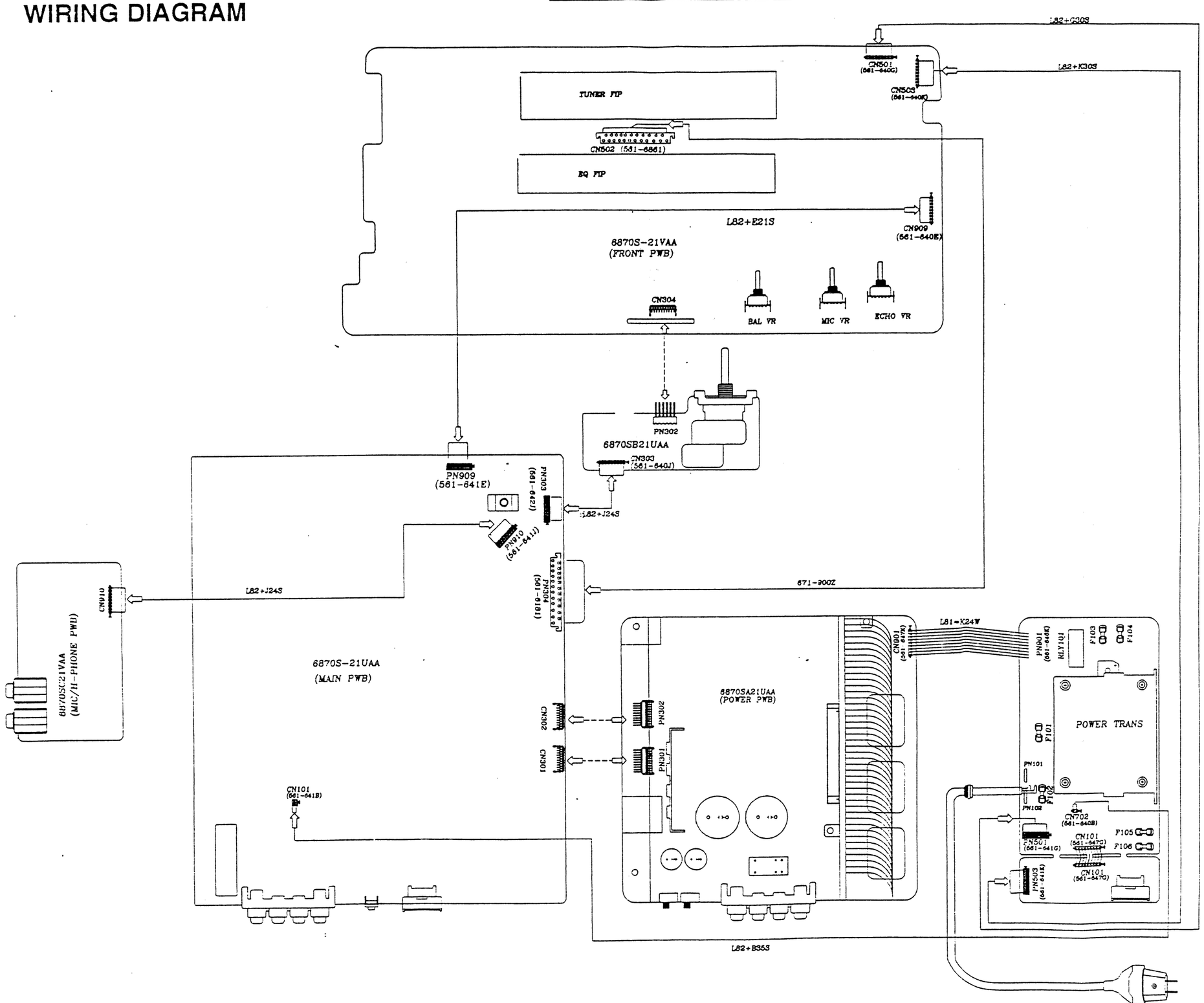
■ MAIN P.C. BOARD (COMPONENTS SIDE)



## FRONT PC. BOARD (COMPONENTS SIDE)

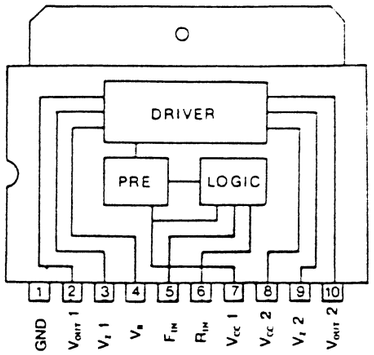


# WIRING DIAGRAM

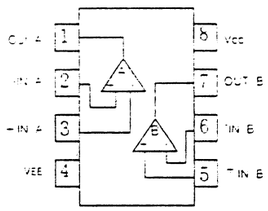


# IC 내부 블록도

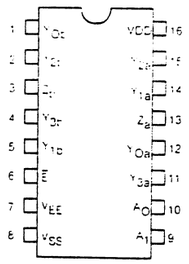
## ■ BA6209




## ■ KIA4558P




## ■ GD4052B



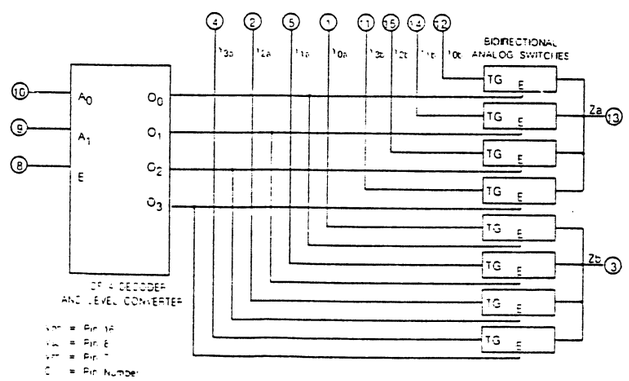

PIN NAMES

| | |
|---|---|
| $Y_{0a}$-$Y_{3a}$ | Independent Inputs/Outputs |
| $Y_{0b}$-$Y_{3b}$ | Independent Inputs/Outputs |
| $A_0$, $A_1$ | Address Inputs |
| $\overline{E}$ | Enable Input (Active LOW) |
| $Z_a$, $Z_b$ | Common Input/Output |

TRUTH TABLE

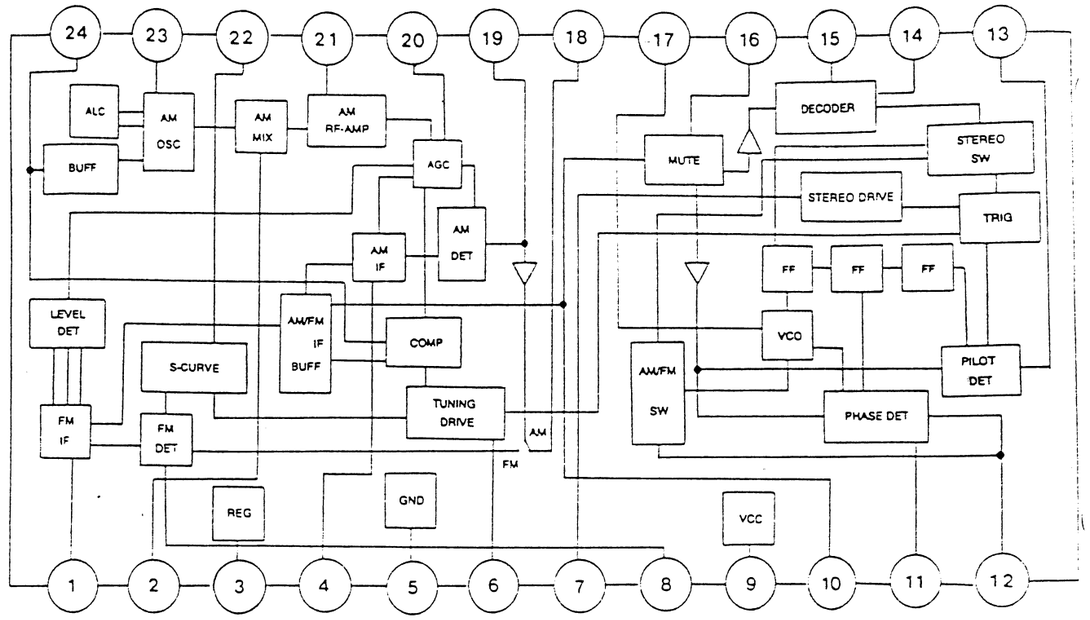
| INPUTS | | | CHANNELS | | | |
|---|---|---|---|---|---|---|
| $\overline{E}$ | $A_1$ | $A_0$ | $Y_0$-Z | $Y_1$-Z | $Y_2$-Z | $Y_3$-Z |
| L | L | L | ON | OFF | OFF | OFF |
| L | L | H | OFF | ON | OFF | OFF |
| L | H | L | OFF | OFF | ON | OFF |
| L | H | H | OFF | OFF | OFF | ON |
| H | X | X | OFF | OFF | OFF | OFF |

L=LOW Level, H= HIGH Level, X=Don't care

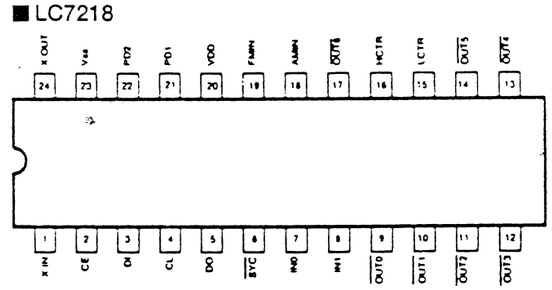


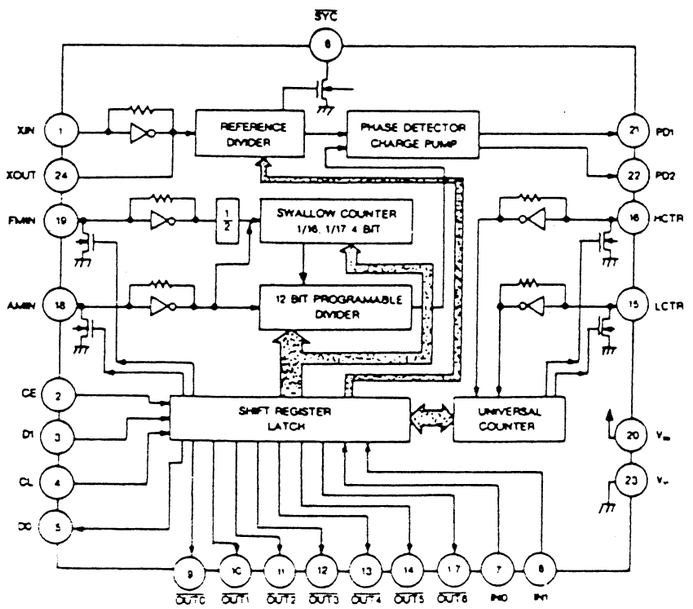



## ■ LA1831

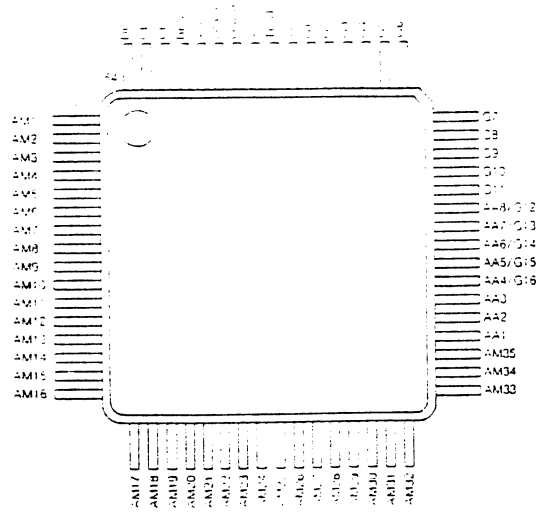


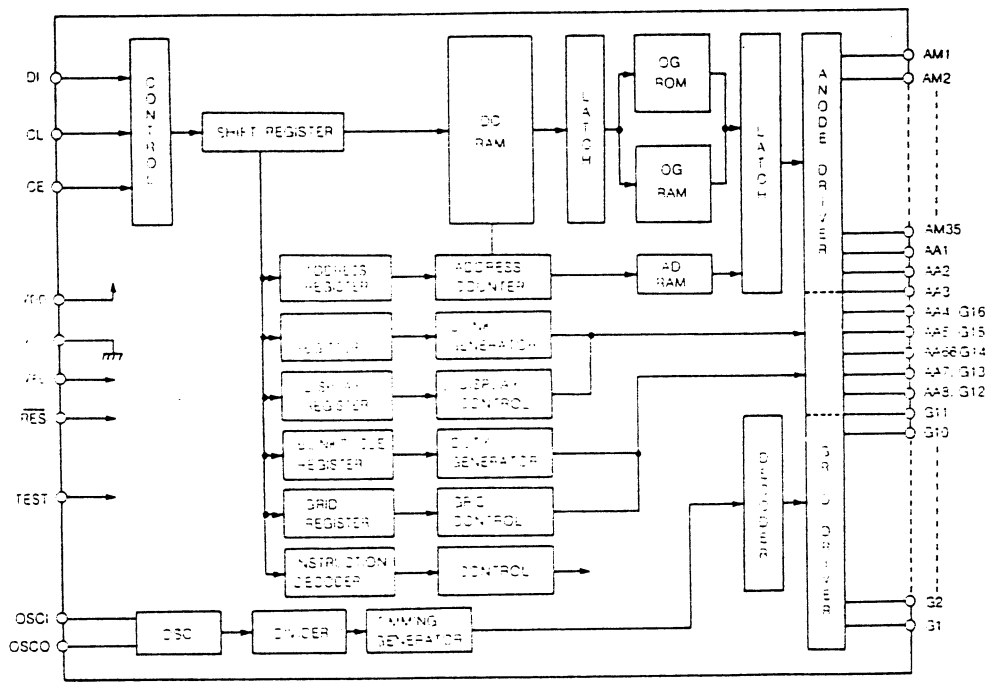

## ■ LC7218



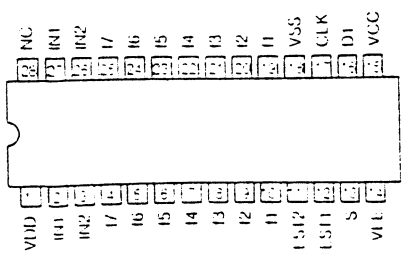



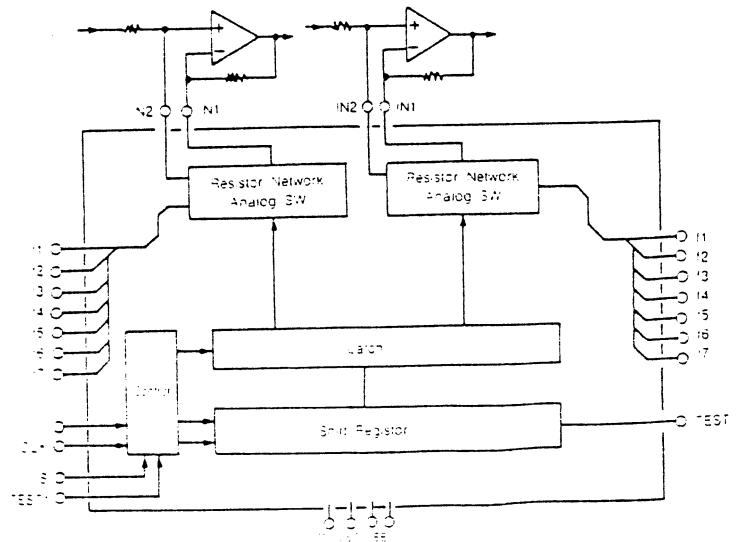
## LC75710E



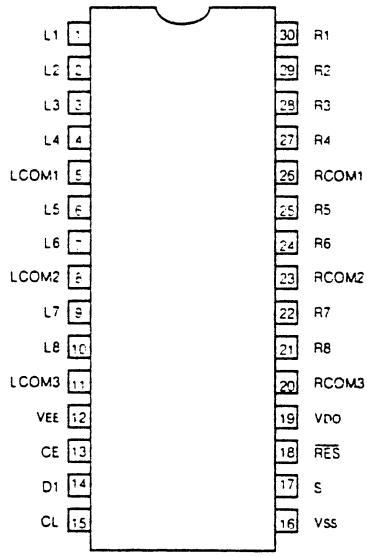


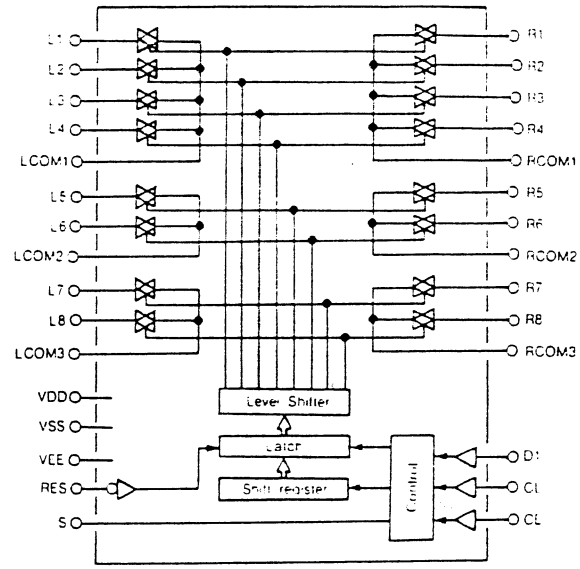

## LC7522



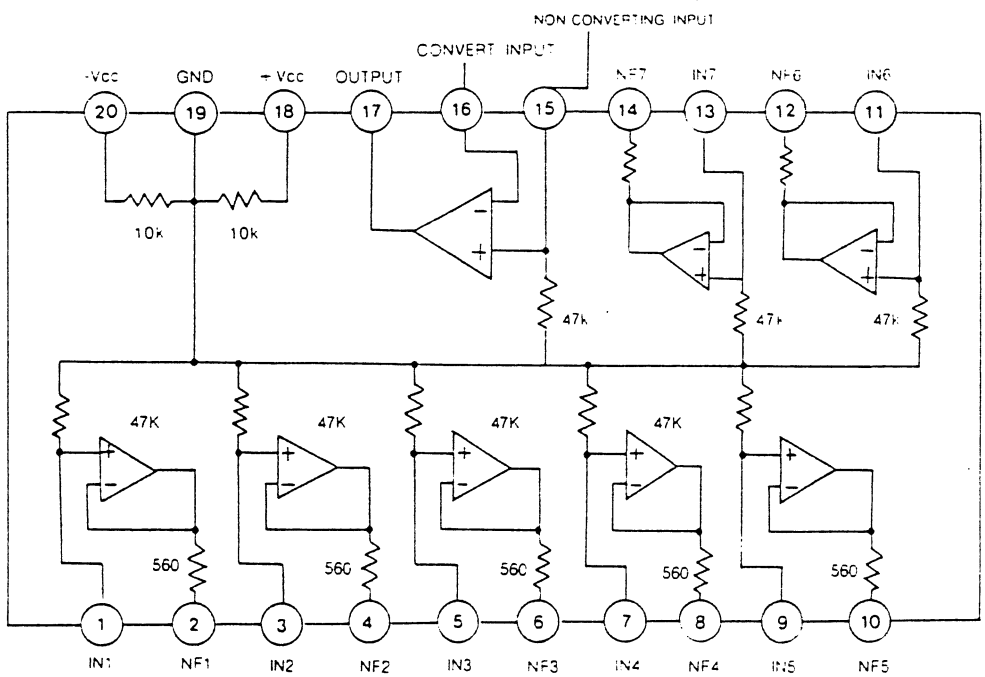



## ■ LC7821

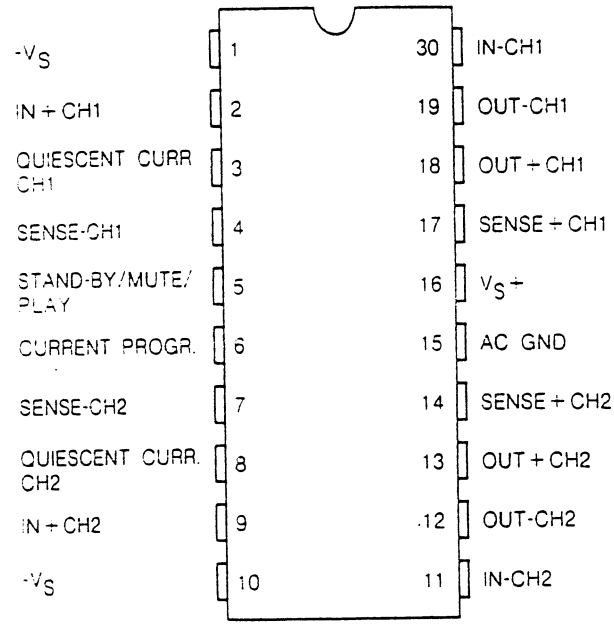


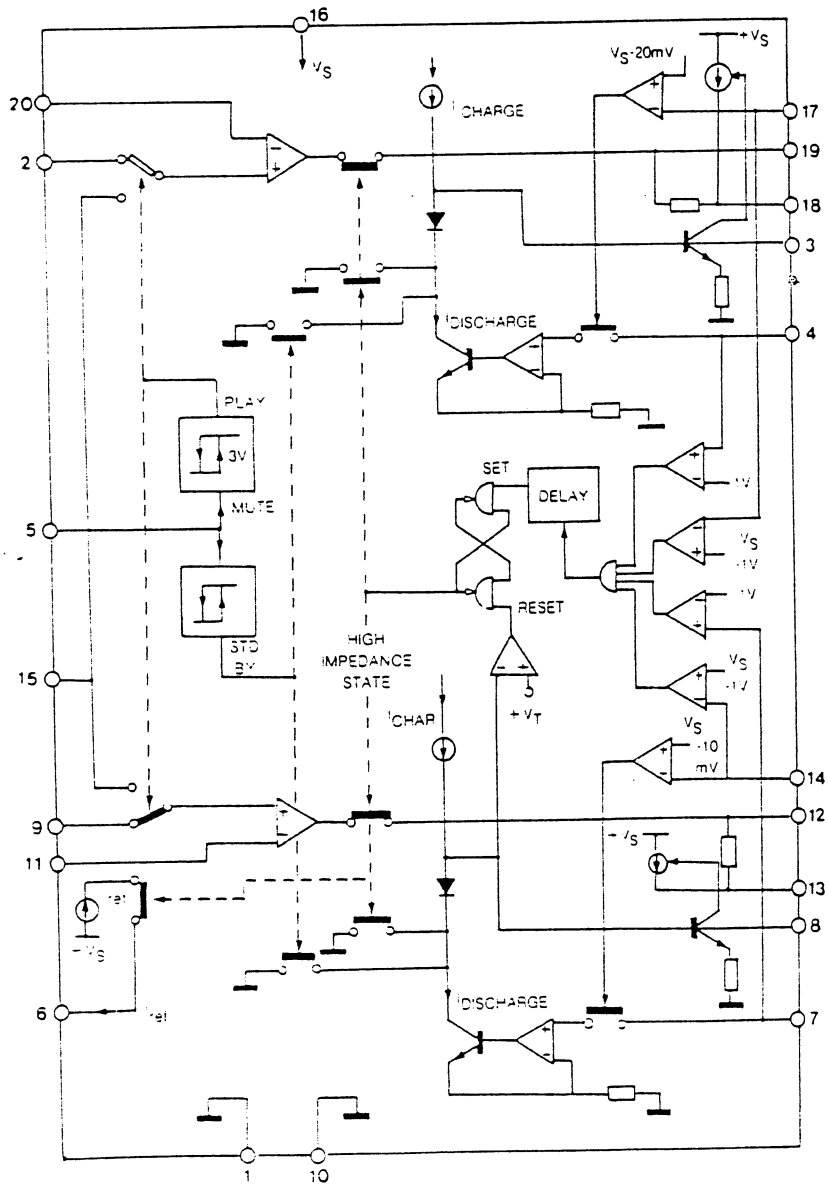




## ■ M5229P

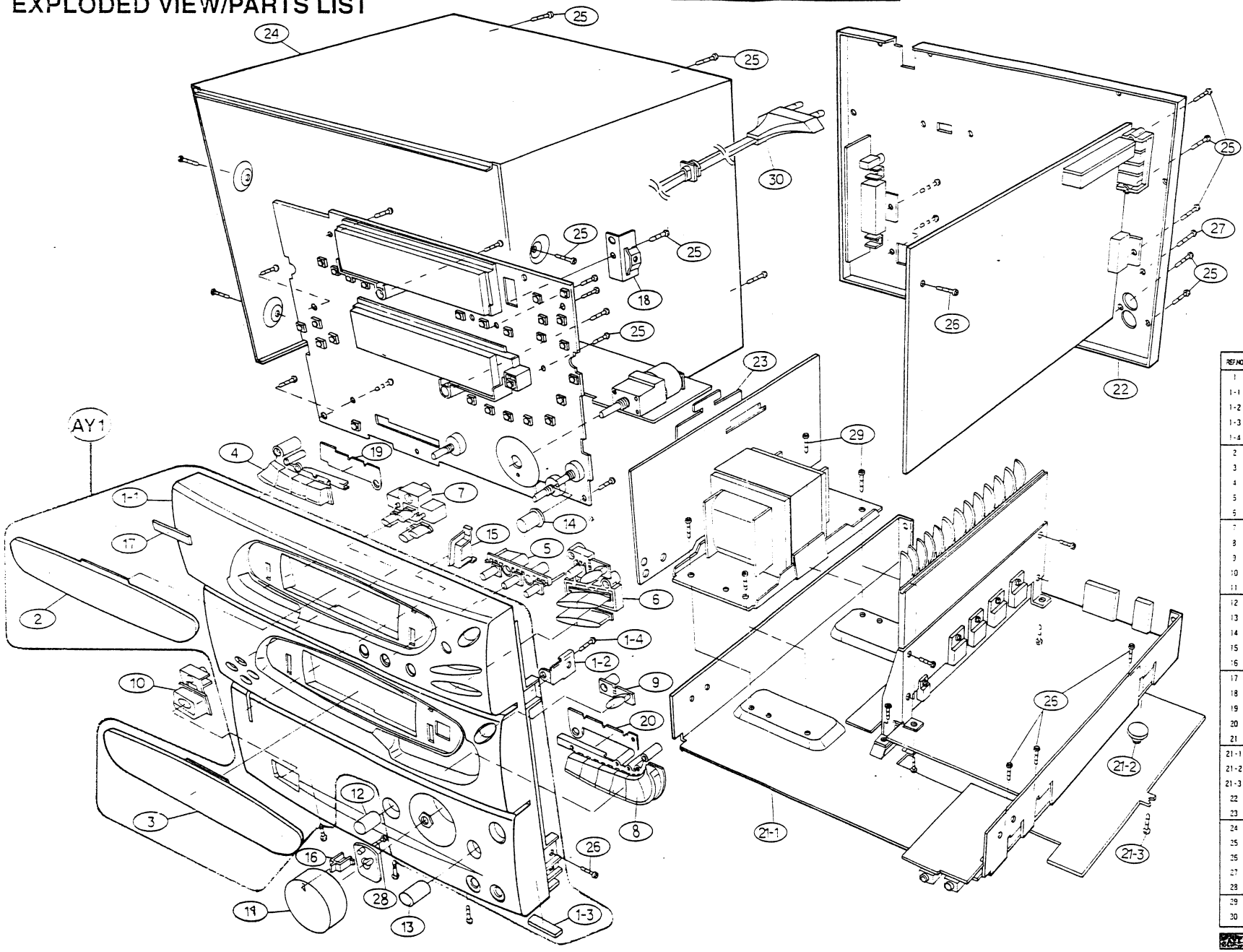


## ■TDA7250


-VS
1
30
IN-CH1
IN + CH1
2
19
OUT-CH1
QUIESCENT CURR CH1
3
18
OUT + CH1
SENSE-CH1
4
17
SENSE + CH1
STAND-BY/MUTE/ PLAY
5
16
VS +
CURRENT PROGR.
6
15
AC GND
SENSE-CH2
7
14
SENSE + CH2
QUIESCENT CURR. CH2
8
13
OUT + CH2
IN + CH2
9
12
OUT-CH2
-VS
10
11
IN-CH2


16
VS
20
2
ICHARGE
VS-20mV
+VS
17
19
18
3
IDISCHARGE
4
PLAY
3V
MUTE
5
SET
DELAY
RESET
HIGH IMPEDANCE STATE
STD BY
15
ICHAR
+VT
VS -1V
VS -10 mV
14
9
11
12
13
8
6
7
1
10

# EXPLODED VIEW/PARTS LIST




| REF.NO. | PART NO. | DESCRIPTION | Q'TY |
|---|---|---|---|
| 1 | 3721SU0776B | FRONT PANEL SUB ASSEMBLY | 1 |
| 1-1 | 3720S-0776B | PANEL, FRONT | 1 |
| 1-2 | 4810S-0112A | BRACKET, CABINET | 2 |
| 1-3 | 472-125A | FELT | 2 |
| 1-4 | 353-025G | SCREW, TAPTITE 3 X 10 | 2 |
| 2 | 3790S-0011A | WINDOW, FIP TUNER | 1 |
| 3 | 3790S-0012A | WINDOW, FIP EQ | 1 |
| 4 | 4940S-0765B | KNOB, TIMER | 1 |
| 5 | 4940S-0766A | KNOB, TUNING | 1 |
| 6 | 4940S-0767A | KNOB, PRESET | 1 |
| 7 | 4940S-0768A | KNOB, EQ | 1 |
| 8 | 4940S-0769B | KNOB, EQ MEMO | 1 |
| 9 | 4940S-0770A | KNOB, FUNCTION | 1 |
| 10 | 4040S-0771A | KNOB, POWER | 1 |
| 11 | 4940S-0772A | KNOB, VOLUME | 1 |
| 12 | 4940S-0773A | KNOB, BALANCE | 1 |
| 13 | 4940S-0774A | KNOB, MIC VOL | 1 |
| 14 | 4940S-0782A | KNOB, ECHO VOL | 1 |
| 15 | 463-027A | LENS, STAND-BY | 1 |
| 16 | 463-028A | LENS, VOLUME | 1 |
| 17 | 241-016A | MARK, FANTASIA | 1 |
| 18 | 4810S-0113A | BRACKET, PCB | 1 |
| 19 | 4810S-0108A | BRACKET, GUIDE KNOB TIMER | 1 |
| 20 | 4810S-0109A | BRACKET, GUIDE KNOB EQ MEMO | 1 |
| 21 | 3141SU0322A | MAIN CHASSIS SUB ASSEMBLY | 1 |
| 21-1 | 3140S-0322A | CHASSIS, MAIN | 1 |
| 21-2 | 265-013B | FOOT, RUBBER | 2 |
| 21-3 | ITRL0302418 | SCREW, 3 X 8 | 2 |
| 22 | 3720S-0777D | PANEL, BACK | 1 |
| 23 | 231-052A | SHEET, PVC COVER | 1 |
| 24 | 213-709A | CABINET, TOP | 1 |
| 25 | 353-025C | SCREW, TAPTITE 3 X 10 | 34 |
| 26 | ITRL0302418 | SCREW, 3 X 10 | 10 |
| 27 | 353-025C | SCREW, TAPPING WASHER 3 X 10 | 1 |
| 28 | ITBH0202018 | SCREW, 2 X 6 | 1 |
| 29 | 353-633A | SCREW, TAPTITE 4 X 8 | 4 |
| 30 | 581-005A | CORD, POWER | 1 |

AY1 3721SU0776B PANEL, FRONT ASSEMBLY

NOTE: Ref. No. Shows a group unit of assembly

# ELECTRICAL PARTS LIST

FR-676A

NOTE: Parts marked with " ⚠ " are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| **ICs** | | | |
| | IC101 | 0ISA183100A | LA1831 IF+MPX(AM ST).SANYO |
| | IC151 | 0ISC791500A | KA7915 ST REGULATOR IC S/S |
| | IC152 | 0IKE781200B | KIA7812PI 12V 1A.KEC |
| | IC102 | 0ISA721800A | LC7218 PLL.SANYO |
| | IC301 | 0IKE455800C | KIA4558S OP AMP.KEC |
| | IC302 | 0ISA782100B | LC7821N ANALOG S/W2CX8P.SANYO |
| | IC303 | 0IGG455800A | GL4558 OP AMP |
| | IC308 | 0IGG455800A | GL4558 OP AMP |
| | IC309 | 0IGG455800A | GL4558 OP AMP |
| | IC310 | 0IGG455800A | GL4558 OP AMP |
| | IC401 | 0IMA733700A | AN7337N 7DOT EQ.MATSUSHITA |
| | IC402 | 0ISA752200B | LC7522 EQ VR.SANYO |
| | IC451 | 0IMA733700A | AN7337N 7DOT EQ.MATSUSHITA |
| | IC501 | 0ISA757100A | LC75710 VFD DRIVE.SANYO |
| | IC502 | 0ISA866224A | LC866224A-5538 TY 8BIT FR-575 |
| | IC504 | 0ISG405200A | HCF4052BEY 4CH ANALOG MUL.SGS |
| | IC505 | 0IGG324000A | GL324 (QUAD PUPLE OP AMP) |
| | IC506 | 0IGG324000A | GL324 (QUAD PUPLE OP AMP) |
| | IC601 | 0IGG455800A | GL4558 OP AMP |
| | IC602 | 0IRH620900B | BA6209N MOTOR DRIVER |
| | IC603 | 0IGG455800A | GL4558 OP AMP |
| | IC701 | 0IKE781200B | KIA7812PI 12V 1A.KEC |
| | IC702 | 0IKE780500H | KIA7805PI 5V 1A REG/VOLT.KEC |
| | IC703 | 0IGD791200C | GL7912 TO-220 V/REGULATOR-12V/1A |
| | IC704 | 0IDB7250OA | TDA7250 ST POWER DRIVER SGS |
| | IC705 | 0IGG455800A | GL4558 OP AMP |
| | IC901 | 0IGG455800A | GL4558 OP AMP |
| | IC902 | 0IGG455800A | GL4558 OP AMP |
| | IC903 | 0INE457000A | μPC4570 DUAL OP AMP NEC |
| | IC904 | 0IKE457000A | μPC4570 DUAL OP AMP NEC |
| | IC905 | 0INE457000A | μPC4570 DUAL OP AMP NEC |
| | IC906 | 668-9050 | ES56028E ST DIP ERSO EQ+D IC |
| | IC950 | 0IGG455800A | GL4558 OP AMP |
| | RM501 | 0IRH676CBR-L | SENSOR RMC.ROHM |
| **TRANSISTORS** | | | |
| | Q101 | 0TR111009AD | KRC111M TP.KEC |
| | Q101 | 0TR319209AA | KTC3192-0 TP.KEC(KTC3807M-0) |
| | Q102 | 0TR319809AA | KTC3198-TP-Y (KTC1815)KEC |
| | Q102 | 0TR320209AA | KTC3202-TP-Y (KTC1959)KEC |
| | Q103 | 0TR127309AA | KTA1273-TP-Y (KTA966A)KEC |
| | Q103 | 0TR319809AA | KTC3198-TP-Y (KTC1815)KEC |
| | Q104 | 0TR111009AD | KRC111M TP.KEC |
| | Q104 | 0TR319809AA | KTC3198-TP-Y (KTC1815)KEC |
| | Q105 | 0TR319809AA | KTC3198-TP-Y (KTC1815)KEC |
| | Q105 | 0TR103009AF | KRA103M TP.KEC(KRA2203) |
| | Q109 | 0TR111009AD | KRC111M TP.KEC |
| | Q110 | 0TR103009AF | KRA103M TP.KEC(KRA2203) |
| | Q111 | 0TR319809AA | KTC3198-TP-Y (KTC1815)KEC |
| | Q114 | 0TR130209AA | KTD1302 MUTING TP.KEC |
| | Q115 | 0TR103009AF | KRA103M TP.KEC(KRA2203) |
| | Q151 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q152 | 0TR111009AD | KRC111M TP.KEC |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | Q153 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q154 | 0TR319809AA | KTC3198-TP-Y (KTC1815)KEC |
| | Q154 | 0TR130209AA | KTD1302 MUTING TP.KEC |
| | Q501 | 0TR130209AA | KTD1302 MUTING TP.KEC |
| | Q502 | 0TR130209AA | KTD1302 MUTING TP.KEC |
| | Q503 | 0TR126609AA | KTA1266-TP-Y (KTA1015) KEC |
| | Q504 | 0TR319209AA | KTC3192-0 TP.KEC(KTC3807M-0) |
| | Q505 | 0TR111009AD | KRC111M TP.KEC |
| | Q506 | 0TR111009AD | KRC111M TP.KEC |
| | Q507 | 0TR111009AD | KRC111M TP.KEC |
| | Q508 | 0TR111009AD | KRC111M TP.KEC |
| | Q509 | 0TR111009AD | KRC111M TP.KEC |
| | Q510 | 0TR111009AD | KRC111M TP.KEC |
| | Q651 | 0TR111009AD | KRC111M TP.KEC |
| | Q652 | 0TR130209AA | KTD1302 MUTING TP.KEC |
| | Q653 | 0TR130209AA | KTD1302 MUTING TP.KEC |
| | Q654 | 0TR111009AD | KRC111M TP.KEC |
| | Q655 | 0TR103009AF | KRA103M TP.KEC(KRA2203) |
| | Q656 | 0TR111009AD | KRC111M TP.KEC |
| | Q657 | 0TR111009AD | KRC111M TP.KEC |
| | Q658 | 0TR111009AD | KRC111M TP.KEC |
| | Q701 | 0TR127309AA | KTA1273-TP-Y (KTA966A)KEC |
| | Q702 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q703 | 0TR320509AB | KTC3205-TP-Y (KTC2236A)KEC |
| | Q704 | 0TR103009AF | KRA103M TP.KEC(KRA2203) |
| | Q705 | 0TR718009AD | KTD718-0 PWR TR+MICA 50W KEC |
| | Q706 | 0TR688809AD | KTB688-0 PWR TR+MICA 50W KEC |
| | Q707 | 0TR319809AA | KTC3198-TP-Y (KTC1815)KEC |
| | Q708 | 0TR102709AA | KTC1027-Y (KTC2235) TP KEC |
| | Q709 | 0TR320209AA | KTC3202-TP-Y (KTC1959)KEC |
| | Q711 | 0TR126609AA | KTA1266-TP-Y (KTA1015) KEC |
| | Q712 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q713 | 0TR319809AA | KTC3198-TP-Y (KTC1815)KEC |
| | Q714 | 0TR126609AA | KTA1266-TP-Y (KTA1015) KEC |
| | Q715 | 0TR319809AA | KTC3198-TP-Y (KTC1815)KEC |
| | Q717 | 0TR111009AD | KRC111M TP.KEC |
| | Q755 | 0TR718009AD | KTD718-0 PWR TR+MICA 50W KEC |
| | Q756 | 0TR688809AD | KTB688-0 PWR TR+MICA 50W KEC |
| | Q757 | 0TR102709AA | KTC1027-Y (KTC2235) TP KEC |
| | Q901 | 0TR111009AD | KRC111M TP.KEC |
| | Q902 | 0TR111009AD | KRC111M TP.KEC |
| | Q903 | 0TR111009AD | KRC111M TP.KEC |
| | Q904 | 0TR102009AF | KRC102M TP.KEC(KRC1202) |
| | Q905 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q906 | 0TR103009AF | KRA103M TP.KEC(KRA2203) |
| | Q907 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q908 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q909 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q910 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q911 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q912 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q913 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q914 | 0TR103009AE | KRC103M TP.KEC(KRC1203) |
| | Q915 | 0TR130209AA | KTD1302 MUTING TP.KEC |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | Q916 | 0TR130209AA | KTD1302 MUTING TP.KEC |
| | Q917 | 0TR130209AA | KTD1302 MUTING TP.KEC |
| | Q918 | 0TR319809AA | KTC3198-TP-Y (KTC1815)KEC |
| **DIODES** | | | |
| | D101 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D102 | 0DD352009BA | 1SR35-200A T-93X 2K TP ROHM/K |
| | D103 | 0DD352009BA | 1SR35-200A T-93X 2K TP ROHM/K |
| | D104 | 0DD352009BA | 1SR35-200A T-93X 2K TP ROHM/K |
| | D105 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D106 | 0DD352009BA | 1SR35-200A T-93X 2K TP ROHM/K |
| | D107 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D108 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D109 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D501 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D502 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D505 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D506 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D50 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D510 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D511 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D512 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D513 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D514 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D515 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D516 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D517 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D518 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D519 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D52 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D520 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D523 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D527 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D528 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D529 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D53 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D530 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D531 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D532 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D533 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D534 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D54 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D55 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D56 | 0DD152009AA | 1SS132 DETECT.SW TP |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | D701 | 0DD352009BA | 1SR35-200A T-93X 2K TP ROHM/K |
| | D702 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D703 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D704 | 0DD604000CB | PBU604.P-FORMING LITEON |
| | D705 | 0DD151000FA | PBM151.BRID.SILITER.FORMING |
| | D706 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D707 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D709 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D711 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D712 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D901 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D902 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D905 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D906 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D907 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D908 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D909 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D910 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D911 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D912 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D913 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D914 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D915 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D916 | 0DD152009AA | 1SS132 DETECT.SW TP |
| | D917 | 0DD152009AA | 1SS132 DETECT.SW TP |
| **LEDs** | | | |
| | LD501 | 571-1120 | CH0905-01-040/HOJ9014-01-040 |
| | LD502 | 561-1009 | TERMINAL ANT DP-034B |
| | LD503 | 576-0008 | JACK.BLOCK CN-36P-2P(WHITE) |
| **ZENER DIODES** | | | |
| | ZD701 | 0DZ910009EE | MTZ9.1C-T-77 ROHM-K |
| | ZD101 | 0DZ150009EA | MTZ15-C T-77 15V TP.ROHM/K |
| | ZD101 | 0DZ510009AA | MTZ5.1-B T-77 5.1V TP.ROHM/K |
| | ZD102 | 0DZ510009AA | MTZ5.1-B T-77 5.1V TP.ROHM/K |
| | ZD401 | 0DZ620009EA | MTZ6.2-B T-77 6.2V TP.ROHM/K |
| | ZD402 | 0DZ620009EA | MTZ6.2-B T-77 6.2V TP.ROHM/K |
| | ZD412 | 0DZ620009EA | MTZ6.2-B T-77 6.2V TP.ROHM/K |
| | ZD413 | 0DZ680009EC | MTZ6.8C-T-77 ROHM-K |
| | ZD501 | 0DZ750009DD | MTZ7.5C-T-77 ROHM-K |
| | ZD502 | 0DZ750009DD | MTZ7.5C-T-77 ROHM-K |
| | ZD520 | 0DZ240009CE | MTZ24D-T-77 ROHM-K |
| | ZD521 | 0DZ560009FA | MTZ5.6-B T-77 5.6V TP.ROHM/K |
| | ZD522 | 0DZ560009FA | MTZ5.6-B T-77 5.6V TP.ROHM/K |
| | ZD524 | 0DZ620009EA | MTZ6.2-B T-77 6.2V TP.ROHM/K |
| | ZD525 | 0DZ620009EA | MTZ6.2-B T-77 6.2V TP.ROHM/K |
| | ZD610 | 0DZ620009EA | MTZ6.2-B T-77 6.2V TP.ROHM/K |
| | ZD611 | 0DZ620009EA | MTZ6.2-B T-77 6.2V TP.ROHM/K |
| | ZD612 | 0DZ620009EA | MTZ6.2-B T-77 6.2V TP.ROHM/K |
| | ZD613 | 0DZ560009FA | MTZ5.6-B T-77 5.6V TP.ROHM/K |
| | ZD614 | 0DZ560009FA | MTZ5.6-B T-77 5.6V TP.ROHM/K |
| | ZD615 | 0DZ620009EA | MTZ6.2-B T-77 6.2V TP.ROHM/K |
| | ZD616 | 0DZ560009FA | MTZ5.6-B T-77 5.6V TP.ROHM/K |
| | ZD617 | 0DZ510009AA | MTZ5.1-B T-77 5.1V TP.ROHM/K |
| | ZD618 | 0DZ560009FA | MTZ5.6-B T-77 5.6V TP.ROHM/K |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| **CAPACITORS** | | | |
| | C101 | QCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C102 | QCN4730K948 | 0.047UF 50V Z F TA26 |
| | C103 | QCN2230H943 | 0.022UF 25V Z F TA26 |
| | C104 | QCE2256K618 | 2.2M SMS 50V M FL TP(5) |
| | C105 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C106 | QCX1000K418 | 10P 50V J NP0 TA26 |
| | C107 | QCE3356K618 | 3.3M SMS 50V M FL TP(5) |
| | C108 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C109 | QCE4746K618 | 0.47M SMS 50V M FL TP(5) |
| | C110 | QCQ2251N409 | 0.022U 100V J POLY TP |
| | C111 | QCN1020K518 | 1000P 50V K B TA26 |
| | C112 | QCE2256K618 | 2.2M SMS 50V M FL TP(5) |
| | C113 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C114 | QCN1020K518 | 1000P 50V K B TA26 |
| | C115 | QCE2276J610 | 220M SMS 35V M FL |
| | C115 | QCN1030F678 | 0.01M 16V M Y TA26 |
| | C116 | QCE1046K618 | 0.1M SMS 50V M FL TP(5) |
| | C116 | QCE1078L630 | 100UF SMS 63V M FMS BULK |
| | C117 | QCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C117 | QCE1076F618 | 100M SMS 16V M FMS TP(5) |
| | C118 | QCE2276F618 | 220M SMS 16V M FMS TP(5) |
| | C118 | QCK1040K945 | 0.1UF 50V Z F TS |
| | C119 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C119 | QCK1040K945 | 0.1UF 50V Z F TS |
| | C120 | QCN4730K948 | 0.047UF 50V Z F TA26 |
| | C120 | 6247203 | CE. ER-0811-220-25-M 220/25V |
| | C121 | QCE1076F618 | 100M SMS 16V M FMS TP(5) |
| | C121 | QCN4730K948 | 0.047UF 50V Z F TA26 |
| | C122 | QCN1040K948 | 0.1UF 50V Z F TA26 |
| | C123 | QCK1040K945 | 0.1UF 50V Z F TS |
| | C123 | QCK4730K945 | 0.047U 50V Z F TS |
| | C124 | QCE1078L630 | 100UF SMS 63V M FMS BULK |
| | C124 | QCK2230K945 | 0.022M 50V Z F TS |
| | C125 | QCK1050K945 | 0.01UF 500V Z F TS |
| | C125 | QCK4730K945 | 0.047U 50V Z F TS |
| | C150 | QCQ2231N409 | 0.022U 100V J POLY TP |
| | C152 | QCE2256K618 | 2.2M SMS 50V M FL TP(5) |
| | C153 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C154 | QCN1020K518 | 1000P 50V K B TA26 |
| | C302 | QCN2210K518 | 220P 50V K B TA26 |
| | C303 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C304 | QCN2210K518 | 220P 50V K B TA26 |
| | C306 | QCE2266F618 | 22M SMS 16V M FMS TP(5) |
| | C307 | QCN2220F668 | 2200P 16V M X TA26 |
| | C308 | QCN8220F678 | 8200P 16V M Y TA26 |
| | C309 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C310 | QCN2210K518 | 220P 50V K B TA26 |
| | C311 | QCN2210K518 | 220P 50V K B TA26 |
| | C312 | QCN2230H943 | 0.022UF 25V Z F TA26 |
| | C313 | QCN1010K518 | 100P 50V K B TA26 |
| | C314 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C317 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C318 | QCN2230H943 | 0.022UF 25V Z F TA26 |
| | C333 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C353 | QCE4766F618 | 47M SMS 16V M FL TP(5) |

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| | C339 | QCN2230H943 | 0.022UF 25V Z F TA26 |
| | C340 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C341 | QCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C342 | QCN1010K518 | 100P 50V K B TA26 |
| | C343 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C345 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C346 | QCN1010K518 | 100P 50V K B TA26 |
| | C347 | QCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C348 | QCN2230H943 | 0.022UF 25V Z F TA26 |
| | C349 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C350 | QCN1020K518 | 1000P 50V K B TA26 |
| | C352 | QCN2210K518 | 220P 50V K B TA26 |
| | C353 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C354 | QCN2210K518 | 220P 50V K B TA26 |
| | C356 | QCE2266F618 | 22M SMS 16V M FMS TP(5) |
| | C357 | QCN2220F668 | 2200P 16V M X TA26 |
| | C358 | QCN8220F678 | 8200P 16V M Y TA26 |
| | C359 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C360 | QCN2210K518 | 220P 50V K B TA26 |
| | C361 | QCN2210K518 | 220P 50V K B TA26 |
| | C363 | QCN1010K518 | 100P 50V K B TA26 |
| | C364 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C367 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C368 | QCN2230H943 | 0.022UF 25V Z F TA26 |
| | C369 | QCN4730K948 | 0.047UF 50V Z F TA26 |
| | C385 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C388 | QCE4766F618 | 47M SMS 16V M FL TP(5) |
| | C389 | QCN2230H943 | 0.022UF 25V Z F TA26 |
| | C390 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C391 | QCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C393 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C395 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C396 | QCN1010K518 | 100P 50V K B TA26 |
| | C397 | QCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C398 | QCN2230H943 | 0.022UF 25V Z F TA26 |
| | C399 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C415 | QCQ1242N409 | 0.12UU S 100V J POLY TP |
| | C416 | QCE2256K618 | 2.2M SMS 50V M FL TP(5) |
| | C417 | QCQ5631N409 | 0.056U 100V J POLY TP |
| | C418 | QCE6848K618 | 0.68M SMS 50V M FL TP(5) |
| | C419 | QCQ1531N409 | 0.015U 100V J POLY TP |
| | C420 | QCE3346K618 | 0.33M SMS 50V M FL TP(5) |
| | C421 | QCN8220F678 | 8200P 16V M Y TA26 |
| | C422 | QCQ1242N409 | 0.12UU S 100V J POLY TP |
| | C423 | QCQ2721N409 | 0.0027M 100V J POLY TP |
| | C424 | QCQ5631N409 | 0.056U 100V J POLY TP |
| | C425 | QCQ1221N409 | 0.0012U 100V J POLY TP |
| | C426 | QCN2230H948 | 0.022UF 25V Z F TA26 |
| | C427 | QCN4710K518 | 470P 50V K B TA26 |
| | C428 | QCN8220F678 | 8200P 16V M Y TA26 |
| | C429 | QCE4766F618 | 47M SMS 16V M FL TP(5) |
| | C430 | QCE4766F618 | 47M SMS 16V M FL TP(5) |
| | C433 | QCE3356K618 | 3.3M SMS 50V M FL TP(5) |
| | C434 | QCN1520F568 | 1500P 16V K X TA26 |
| | C435 | QCE3356K618 | 3.3M SMS 50V M FL TP(5) |
| | C438 | QCN1030F678 | 0.01M 16V M Y TA26 |

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|---|---|---|---|
| | C439 | OCN1030F678 | 0.01M 16V M Y TA26 |
| | C465 | OCQ1242N409 | 0.12UU S 100V J POLY TP |
| | C466 | OCE2256K618 | 2.2M SMS 50V M FL TP(5) |
| | C467 | OCQ5631N409 | 0.056U 100V J POLY TP |
| | C468 | OCE6846K618 | 0.68M SMS 50V M FL TP(5) |
| | C469 | OCQ1531N409 | 0.015U 100V J POLY TP |
| | C470 | OCE3346K618 | 0.33M SMS 50V M FL TP(5) |
| | C471 | OCN8220F678 | 8200P 16V M Y TA26 |
| | C472 | OCQ1242N409 | 0.12UU S 100V J POLY TP |
| | C473 | OCQ2721N409 | 0.0027M 100V J POLY TP |
| | C474 | OCQ5631N409 | 0.056U 100V J POLY TP |
| | C475 | OCQ1221N409 | 0.0012U 100V J POLY TP |
| | C476 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C477 | OCN4710K518 | 470P 50V K B TA26 |
| | C478 | OCN8220F678 | 8200P 16V M Y TA26 |
| | C479 | OCE4766F618 | 47M SMS 16V M FL TP(5) |
| | C480 | OCE4766F618 | 47M SMS 16V M FL TP(5) |
| | C483 | OCE3356K618 | 3.3M SMS 50V M FL TP(5) |
| | C484 | OCN1520F568 | 1500P 16V K X TA26 |
| | C485 | OCE3356K618 | 3.3M SMS 50V M FL TP(5) |
| | C501 | OCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C502 | OCQ1021N409 | 0.001U 100V J POLY TP |
| | C503 | OCQ1221N409 | 0.0012U 100V J POLY TP |
| | C504 | OCQ2221N409 | 0.0022U 100V J POLY TP |
| | C505 | OCQ3321N409 | 0.0033U 100V J POLY TP |
| | C506 | OCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C507 | OCQ1031N409 | 0.01U 100V J POLY TP |
| | C508 | OCQ1031N409 | 0.01U 100V J POLY TP |
| | C509 | OCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C51 | OCN1020K518 | 1000P 50V K B TA26 |
| | C510 | OCQ2231N409 | 0.022U 100V J POLY TP |
| | C511 | OCQ1831N409 | 0.018U 100V J POLY TP |
| | C512 | OCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C513 | OCN4730K948 | 0.047UF 50V Z F TA26 |
| | C514 | OCN4730K948 | 0.047UF 50V Z F TA26 |
| | C515 | OCE3366F618 | 33M SMS 16V M FL TP(5) |
| | C516 | OCN4730K948 | 0.047UF 50V Z F TA26 |
| | C517 | OCN4730K948 | 0.047UF 50V Z F TA26 |
| | C518 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C519 | OCN4730K948 | 0.047UF 50V Z F TA26 |
| | C52 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C520 | OCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C521 | OCE3346K618 | 0.33M SMS 50V M FL TP(5) |
| | C522 | OCE3346K618 | 0.33M SMS 50V M FL TP(5) |
| | C523 | OCE3366F618 | 33M SMS 16V M FL TP(5) |
| | C524 | 624-034I | GOLD,FM0H104ZTP NEC |
| | C525 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C526 | OCX6800K408 | 68P 50V J SL TA26 |
| | C527 | OCN1040K948 | 0.1UF 50V Z F TA26 |
| | C528 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C529 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C530 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C531 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C532 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C533 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C534 | OCN2230H948 | 0.022UF 25V Z F TA26 |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | C535 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C536 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C537 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C538 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C539 | OCK1040K945 | 0.1UF 50V Z F TS |
| | C540 | OCN1040K948 | 0.1UF 50V Z F TA26 |
| | C541 | OCX3300K408 | 33P 50V J SL TA26 |
| | C542 | OCN4730K948 | 0.047UF 50V Z F TA26 |
| | C543 | OCK1040K945 | 0.1UF 50V Z F TS |
| | C544 | OCK1040K945 | 0.1UF 50V Z F TS |
| | C545 | OCK1040K945 | 0.1UF 50V Z F TS |
| | C546 | OCK1040K945 | 0.1UF 50V Z F TS |
| | C547 | OCK1040K945 | 0.1UF 50V Z F TS |
| | C548 | OCK1040K945 | 0.1UF 50V Z F TS |
| | C549 | OCK1040K945 | 0.1UF 50V Z F TS |
| | C55 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C550 | OCK1040K945 | 0.1UF 50V Z F TS |
| | C551 | OCE2276D618 | 220M SMS 10V M FMS TP(5) |
| | C552 | OCX1800K518 | 18P 50V K NPO TA26 |
| | C553 | OCX1800K518 | 18P 50V K NPO TA26 |
| | C554 | OCX3300K408 | 33P 50V J SL TA26 |
| | C555 | OCX3300K408 | 33P 50V J SL TA26 |
| | C556 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C557 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C558 | OCE2266F618 | 22M SMS 16V M FMS TP(5) |
| | C559 | OCE2276D618 | 220M SMS 10V M FMS TP(5) |
| | C56 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C560 | OCE1076D618 | 100M SMS 10V M FMS TP(5) |
| | C561 | OCE4766J618 | 47M SMS 35V M FM(5) TP(5) |
| | C562 | OCE4766J618 | 47M SMS 35V M FM(5) TP(5) |
| | C563 | OCE2276D618 | 220M SMS 10V M FMS TP(5) |
| | C564 | OCE1076D618 | 100M SMS 10V M FMS TP(5) |
| | C565 | OCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C566 | OCE1076D618 | 100M SMS 10V M FMS TP(5) |
| | C567 | OCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C568 | OCE1063F619 | 10M SRE 16V M FL TP(2.5) |
| | C569 | OCE1063F619 | 10M SRE 16V M FL TP(2.5) |
| | C57 | OCN1050F678 | 0.01M 16V M Y TA26 |
| | C570 | OCK1040K945 | 0.1UF 50V Z F TS |
| | C572 | OCN1040K948 | 0.1UF 50V Z F TA26 |
| | C575 | OCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C58 | OCE3356K618 | 3.3M SMS 50V M FL TP(5) |
| | C61 | OCC1500K415 | 15P 50V J NPO TS |
| | C64 | OCC0600K115 | 6P 50V D NPO TS |
| | C650 | OCN1040K948 | 0.1UF 50V Z F TA26 |
| | C651 | OCE1086F650 | 1000M SMS 16V M FMS |
| | C652 | OCN1040K948 | 0.1UF 50V Z F TA26 |
| | C653 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C655 | OCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C656 | OCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C657 | OCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C658 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C660 | OCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C662 | OCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C663 | OCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C665 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |





| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | C666 | OCE3356K618 | 3.3M SMS 50V M FL TP(5) |
| | C668 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C669 | OCE4746K618 | 0.47M SMS 50V M FL TP(5) |
| | C670 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C671 | OCE4746K618 | 0.47M SMS 50V M FL TP(5) |
| | C70 | OCE1076F618 | 100M SMS 16V M FMS TP(5) |
| | C701 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C702 | OCE2256K618 | 2.2M SMS 50V M FL TP(5) |
| | C703 | OCE6846K618 | 0.68M SMS 50V M FL TP(5) |
| | C704 | OCE2266K618 | 22M SMS 50V M FMS TP(5) |
| | C707 | OCC1010K415 | 100P 50V J NP0 TS |
| | C709 | OCE1076K618 | 100UF SMS 50V M FL TP5 |
| | C71 | OCN1040K948 | 0.1UF 50V Z F TA26 |
| | C710 | OCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C711 | OCC1510K415 | 150P 50V J NP0 TS |
| | C712 | OCC1500K415 | 15P 50V J NP0 TS |
| | C713 | OCC1510K415 | 150P 50V J NP0 TS |
| | C714 | OCE2256K618 | 2.2M SMS 50V M FL TP(5) |
| | C715 | OCC1010K415 | 100P 50V J NP0 TS |
| | C716 | OCN1020K518 | 1000P 50V K B TA26 |
| | C72 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C720 | 624-300A | C, CE 4700UF/50V 25X35 DL SAMY |
| | C721 | OCK1030W945 | 0.01UF 500V Z F TS |
| | C722 | OCK1030W945 | 0.01UF 500V Z F TS |
| | C723 | OCK1030W945 | 0.01UF 500V Z F TS |
| | C724 | OCK1030W945 | 0.01UF 500V Z F TS |
| | C726 | OCQ1031N409 | 0.01U 100V J POLY TP |
| | C727 | OCQ1031N409 | 0.01U 100V J POLY TP |
| | C728 | OCQ1031N409 | 0.01U 100V J POLY TP |
| | C729 | OCQ1031N409 | 0.01U 100V J POLY TP |
| | C73 | OCE4756F618 | 47M SMS 16V M FL TP(5) |
| | C730 | OCE1086J630 | 1000UF SMS 35V M FMS BULK |
| | C731 | OCE2276F618 | 220M SMS 16V M FMS TP(5) |
| | C732 | OCE1076D618 | 100M SMS 10V M FMS TP(5) |
| | C733 | OCE1076F618 | 100M SMS 16V M FMS TP(5) |
| | C734 | OCE1076F618 | 100M SMS 16V M FMS TP(5) |
| | C74 | OCN4720F668 | 4700P 16V M X TA26 |
| | C75 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C750 | 624-300A | C, CE 4700UF/50V 25X35 DL SAMY |
| | C751 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C753 | OCE6846K618 | 0.68M SMS 50V M FL TP(5) |
| | C754 | OCE2256K618 | 22M SMS 50V M FMS TP(5) |
| | C757 | OCC1010K415 | 100P 50V J NP0 TS |
| | C759 | OCE1076K618 | 100UF SMS 50V M FL TP5 |
| | C76 | OCN4730K948 | 0.047UF 50V Z F TA26 |
| | C760 | OCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C761 | OCC1510K415 | 150P 50V J NP0 TS |
| | C762 | OCC1500K415 | 15P 50V J NP0 TS |
| | C763 | OCC1510K415 | 150P 50V J NP0 TS |
| | C766 | OCN1020K518 | 1000P 50V K B TA26 |
| | C77 | OCN1020K518 | 1000P 50V K B TA26 |
| | C775 | OCC1010K415 | 100P 50V J NP0 TS |
| | C78 | OCN1010K518 | 100P 50V K B TA26 |
| | C780 | OCE1086J630 | 1000UF SMS 35V M FMS BULK |
| | C781 | OCE2276F618 | 220M SMS 16V M FMS TP(5) |
| | C79 | OCN1020K518 | 1000P 50V K B TA26 |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | C80 | OCE1076F618 | 100M SMS 16V M FMS TP(5) |
| | C81 | OCX3300K408 | 33P 50V J SL TA26 |
| | C82 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C83 | OCX3300K408 | 33P 50V J SL TA26 |
| | C84 | OCE2266F618 | 22M SMS 16V M FMS TP(5) |
| | C85 | OCK4730K945 | 0.047U 50V Z F TS |
| | C90 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C901 | OCE4766F618 | 47M SMS 16V M FL TP(5) |
| | C902 | OCE4766F618 | 47M SMS 16V M FL TP(5) |
| | C903 | OCE2256K618 | 2.2M SMS 50V M FL TP(5) |
| | C904 | OCE2256K618 | 2.2M SMS 50V M FL TP(5) |
| | C905 | OCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C909 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C910 | OCN1040K948 | 0.1UF 50V Z F TA26 |
| | C911 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C912 | OCN5620F668 | 5600P 16V M X TA26 |
| | C913 | OCN5610K518 | 560P 50V K B TA26 |
| | C914 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C915 | OCN1030F678 | 0.01M 16V M Y TA26 |
| | C916 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C917 | OCN1040K948 | 0.1UF 50V Z F TA26 |
| | C918 | OCN3320F668 | 3300P 16V M TA26 |
| | C919 | OCN5620F668 | 5600P 16V M X TA26 |
| | C920 | OCN4730K948 | 0.047UF 50V Z F TA26 |
| | C921 | OCE4766D618 | 47M SMS 10V M FL TP(5) |
| | C922 | OCN4730K948 | 0.047UF 50V Z F TA26 |
| | C923 | OCE3346K618 | 0.33M SMS 50V M FL TP(5) |
| | C924 | OCN1030F678 | 0.01M 16V M Y TA26 |
| | C925 | OCE3346K618 | 0.33M SMS 50V M FL TP(5) |
| | C926 | OCN1030F678 | 0.01M 16V M Y TA26 |
| | C931 | OCN1010K518 | 100P 50V K B TA26 |
| | C932 | OCE4766D618 | 47M SMS 10V M FL TP(5) |
| | C933 | OCE1076D618 | 100M SMS 10V M FMS TP(5) |
| | C934 | OCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C935 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C936 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C937 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C938 | OCN1010K518 | 100P 50V K B TA26 |
| | C939 | OCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C940 | OCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C941 | OCN1040K948 | 0.1UF 50V Z F TA26 |
| | C942 | OCN1040K948 | 0.1UF 50V Z F TA26 |
| | C943 | OCN2230H948 | 0.022UF 25V Z F TA26 |
| | C944 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C945 | OCN1020K518 | 1000P 50V K B TA26 |
| | C946 | OCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C947 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C948 | OCN1010K518 | 100P 50V K B TA26 |
| | C949 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C950 | OCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C951 | OCE1066J618 | 10M SMS 35V M FL TP(5) |
| | C951 | OCE2256K618 | 2.2M SMS 50V M FL TP(5) |
| | C952 | OCE2256K618 | 2.2M SMS 50V M FL TP(5) |
| | C953 | OCE2256K618 | 2.2M SMS 50V M FL TP(5) |
| | C954 | OCE2256K618 | 2.2M SMS 50V M FL TP(5) |
| | C955 | OCE2256K618 | 2.2M SMS 50V M FL TP(5) |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | C980 | QCE22406K618 | 0.22M SMS 50V M FM5 TP(5) |
| | C981 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C982 | QCN4710K518 | 470P 50V K B TA26 |
| | C983 | QCE4756K618 | 4.7M SMS 50V M FL TP(5) |
| | C984 | QQ33331N409 | 0.033U 100V J POLY TP |
| | C986 | QCN1020K518 | 1000P 50V K B TA26 |
| | C988 | QCE2276F618 | 220M SMS 16V M FM5 TP(5) |
| | C989 | QCN1020K518 | 1000P 50V K B TA26 |
| | C990 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C991 | QCE226F618 | 22M SMS 16V M FM5 TP(5) |
| | C992 | QCN1010K518 | 100P 50V K B TA26 |
| | C993 | QCE2275D618 | 220M SR 10V M FL TP(5) |
| | C994 | QCE1056K618 | 1.0M SMS 50V M FL TP(5) |
| | C995 | QCE226F618 | 22M SMS 16V M FM5 TP(5) |
| | C996 | QCN1010K518 | 100P 50V K B TA26 |
| | C997 | QCE2275D618 | 220M SR 10V M FL TP(5) |

## RESISTORS

| | | | |
|---|---|---|---|
| | R101 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R102 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R103 | QRD3900F608 | 390 1/6W 5 TA26 |
| | R104 | QRD3301F608 | 3.3K 1/6W 5 TA26 |
| | R104 | QRD5601F608 | 5.6K 1/6W 5 TA26 |
| | R105 | QRD1002F608 | 10 1/6W 5 TA26 |
| | R106 | QRD1002F608 | 10 1/6W 5 TA26 |
| | R107 | QRD6801F608 | 6.8K 1/6W 5 TA26 |
| | R108 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R109 | QRD6801F608 | 6.8K 1/6W 5 TA26 |
| | R110 | QRD6801F608 | 6.8K 1/6W 5 TA26 |
| | R111 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R112 | QRD8200F608 | 820 1/6W 5 TA26 |
| | R113 | QRD6803F608 | 680K 1/6W 5 TA26 |
| | R114 | QRD5601F608 | 5.6K 1/6W 5 TA26 |
| | R115 | QRD3301F608 | 3.3K 1/6W 5 TA26 |
| | R116 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R119 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R120 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R150 | QRD6801F608 | 6.8K 1/6W 5 TA26 |
| | R151 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R152 | QRD8200F608 | 820 1/6W 5 TA26 |
| | R153 | QRD6803F608 | 680K 1/6W 5 TA26 |
| | R154 | QRD5601F608 | 5.6K 1/6W 5 TA26 |
| | R155 | QRD3301F608 | 3.3K 1/6W 5 TA26 |
| | R156 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R501 | QRD2701F608 | 2.7K 1/6W 5 TA26 |
| | R502 | QRD4702F608 | 47K 1/6W 5 TA26 |
| | R503 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R504 | QRD5600F608 | 560 1/6W 5 TA26 |
| | R505 | QRD3302F608 | 33K 1/6W 5 TA26 |
| | R506 | QRD3303F608 | 330K 1/6W 5 TA26 |
| | R507 | QRD4702F608 | 47K 1/6W 5 TA26 |
| | R508 | QRD2701F608 | 2.7K 1/6W 5 TA26 |
| | R509 | QRD2701F608 | 2.7K 1/6W 5 TA26 |
| | R510 | QRD2701F608 | 2.7K 1/6W 5 TA26 |
| | R511 | QRD2701F608 | 2.7K 1/6W 5 TA26 |
| | R512 | QRD2701F608 | 2.7K 1/6W 5 TA26 |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | R513 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R514 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R515 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R516 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R518 | QRD2203F608 | 220K 1/6W 5 TA26 |
| | R521 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R522 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R523 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R524 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R540 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R543 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R544 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R545 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R546 | QRD1202F608 | 12K 1/6W 5 TA26 |
| | R547 | QRD4702F608 | 47K 1/6W 5 TA26 |
| | R548 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R549 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R551 | QRD2701F608 | 2.7K 1/6W 5 TA26 |
| | R552 | QRD4702F608 | 47K 1/6W 5 TA26 |
| | R553 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R554 | QRD5600F608 | 560 1/6W 5 TA26 |
| | R555 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R556 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R557 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R558 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R559 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R401 | QRD3301F608 | 3.3K 1/6W 5 TA26 |
| | R402 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R405 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R406 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R407 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R408 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R409 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R410 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R411 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R415 | QRN1000F608 | 100 1/6W 5% TA26 |
| | R416 | QRN1000F608 | 100 1/6W 5% TA26 |
| | R417 | QRD4701F608 | 4.7K 1/6W 5 TA26 |
| | R418 | QRD4701F608 | 4.7K 1/6W 5 TA26 |
| | R421 | QRD4700F608 | 470 1/6W 5 TA26 |





| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | R451 | QRD3301F608 | 3.3K 1/6W 5 TA26 |
| | R452 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R453 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R454 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R465 | QRN1000F608 | 100 1/6W 5% TA26 |
| | R466 | QRN1000F608 | 100 1/6W 5% TA26 |
| | R467 | QRD4701F608 | 4.7K 1/6W 5 TA26 |
| | R468 | QRD4701F608 | 4.7K 1/6W 5 TA26 |
| | R471 | QRD4700F608 | 470 1/6W 5 TA26 |
| | R475 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R476 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R477 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R478 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R479 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R480 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R481 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R501 | QRD2700F608 | 270 1/6W 5 TA26 |
| | R502 | QRD2700F608 | 270 1/6W 5 TA26 |
| | R504 | QRD1003F608 | 100K 1/6W 5 TA26 |
| | R505 | QRD6801F608 | 6.8K 1/6W 5 TA26 |
| | R506 | QRD1201F608 | 1.2K 1/6W 5 TA26 |
| | R507 | QRD6802F608 | 68K 1/6W 5 TA26 |
| | R508 | QRD7502F608 | 75K 1/6W 5 TA26 |
| | R509 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R51 | QRD1500F608 | 150 1/6W 5 TA26 |
| | R510 | QRD1000F608 | 100 1/6W 5 TA26 |
| | R511 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R512 | QRD1501F608 | 1.5K 1/6W 5 TA26 |
| | R513 | QRD6802F608 | 68K 1/6W 5 TA26 |
| | R514 | QRD6202F608 | 62K 1/6W 5 TA26 |
| | R515 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R516 | QRD1000F608 | 100 1/6W 5 TA26 |
| | R517 | QRD1202F608 | 12K 1/6W 5 TA26 |
| | R518 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R519 | QRD6802F608 | 68K 1/6W 5 TA26 |
| | R520 | QRD5102F608 | 51K 1/6W 5 TA26 |
| | R521 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R522 | QRD1000F608 | 100 1/6W 5 TA26 |
| | R523 | QRD1202F608 | 12K 1/6W 5 TA26 |
| | R524 | QRD1501F608 | 1.5K 1/6W 5 TA26 |
| | R525 | QRD6802F608 | 68K 1/6W 5 TA26 |
| | R526 | QRD5602F608 | 56K 1/6W 5 TA26 |
| | R527 | QRD5601F608 | 5.6K 1/6W 5 TA26 |
| | R528 | QRD1000F608 | 100 1/6W 5 TA26 |
| | R529 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R53 | QRD1000F608 | 100 1/6W 5 TA26 |
| | R530 | QRD1501F608 | 1.5K 1/6W 5 TA26 |
| | R531 | QRD6802F608 | 68K 1/6W 5 TA26 |
| | R532 | QRD5102F608 | 51K 1/6W 5 TA26 |
| | R533 | QRD5601F608 | 5.6K 1/6W 5 TA26 |
| | R534 | QRD1000F608 | 100 1/6W 5 TA26 |
| | R535 | QRD1502F608 | 15K 1/6W 5 TA26 |
| | R536 | QRD1501F608 | 1.5K 1/6W 5 TA26 |
| | R537 | QRD6802F608 | 68K 1/6W 5 TA26 |
| | R538 | QRD7502F608 | 75K 1/6W 5 TA26 |
| | R539 | QRD5601F608 | 5.6K 1/6W 5 TA26 |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | R54 | QRD3302F608 | 33 1/6W 5 TA26 |
| | R540 | QRD1000F608 | 100 1/6W 5 TA26 |
| | R541 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R542 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R543 | QRD6801F608 | 6.8K 1/6W 5 TA26 |
| | R544 | QRD1201F608 | 1.2K 1/6W 5 TA26 |
| | R545 | QRD6802F608 | 68K 1/6W 5 TA26 |
| | R546 | QRD5102F608 | 51K 1/6W 5 TA26 |
| | R547 | QRD5601F608 | 5.6K 1/6W 5 TA26 |
| | R548 | QRD1000F608 | 100 1/6W 5 TA26 |
| | R549 | QRD4702F608 | 47K 1/6W 5 TA26 |
| | R55 | QRD3300F608 | 330 1/6W 5 TA26 |
| | R550 | QRD8201F608 | 8.2K 1/6W 5 TA26 |
| | R551 | QRD8201F608 | 8.2K 1/6W 5 TA26 |
| | R552 | QRD8201F608 | 8.2K 1/6W 5 TA26 |
| | R553 | QRD3902F608 | 39K 1/6W 5 TA26 |
| | R554 | QRD1802F608 | 18K 1/6W 5 TA26 |
| | R555 | QRD8201F608 | 8.2K 1/6W 5 TA26 |
| | R556 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R557 | QRD4702F608 | 47K 1/6W 5 TA26 |
| | R56 | QRD3301F608 | 3.3K 1/6W 5 TA26 |
| | R560 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R561 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R562 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R563 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R564 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R565 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R566 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R567 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R568 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R569 | QRD1002F608 | 10K 1/6W 5 TA26 |
| | R571 | QRD3900F608 | 390 1/6W 5 TA26 |
| | R572 | QRD3900F608 | 390 1/6W 5 TA26 |
| | R573 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R574 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R575 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R576 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R577 | QRD1001F608 | 1.0K 1/6W 5 TA26 |
| | R578 | QRD6800F608 | 680 1/6W 5 TA26 |
| | R579 | QRD8200F608 | 820 1/6W 5 TA26 |
| | R58 | QRD5600F608 | 560 1/6W 5 TA26 |
| | R580 | QRD1201F608 | 1.2K 1/6W 5 TA26 |
| | R581 | QRD6800F608 | 680 1/6W 5 TA26 |
| | R582 | QRD8200F608 | 820 1/6W 5 TA26 |
| | R583 | QRD1201F608 | 1.2K 1/6W 5 TA26 |
| | R584 | QRD1501F608 | 1.5K 1/6W 5 TA26 |
| | R585 | QRD2201F608 | 2.2K 1/6W 5 TA26 |
| | R586 | QRD3301F608 | 3.3K 1/6W 5 TA26 |
| | R587 | QRD4701F608 | 4.7K 1/6W 5 TA26 |
| | R588 | QRD8201F608 | 8.2K 1/6W 5 TA26 |
| | R589 | QRD6800F608 | 680 1/6W 5 TA26 |
| | R59 | QRD0222F608 | 22 1/6W 5 TA26 |
| | R590 | QRD8200F608 | 820 1/6W 5 TA26 |
| | R591 | QRD1201F608 | 1.2K 1/6W 5 TA26 |
| | R592 | QRD1501F608 | 1.5K 1/6W 5 TA26 |
| | R593 | QRD2201F608 | 2.2K 1/6W 5 TA26 |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | R594 | ORD5301F608 | 3.3K 1/6W 5 TA26 |
| | R595 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R596 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R597 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R598 | ORD2702F608 | 27K 1/6W 5 TA26 |
| | R599 | ORD6802F608 | 68K 1/6W 5 TA26 |
| | R60 | ORD1500F608 | 150 1/6W 5 TA26 |
| | R600 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R601 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R602 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R603 | ORD8200F608 | 820 1/6W 5 TA26 |
| | R604 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R605 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R606 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R607 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R608 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R609 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R610 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R611 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R612 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R613 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R614 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R615 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R616 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R617 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R618 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R619 | ORD0220F608 | 22 1/6W 5 TA26 |
| | R62 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R620 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R621 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R622 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R623 | ORD8200F608 | 820 1/6W 5 TA26 |
| | R624 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R625 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R626 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R627 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R628 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R629 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R630 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R631 | ORD1004F608 | 1.0M 1/6W 5 TA26 |
| | R632 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R633 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R634 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R635 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R636 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R637 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R638 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R639 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R640 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R641 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R643 | ORD1503F608 | 150K 1/6W 5 TA26 |
| | R644 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R645 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R646 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R647 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R648 | ORD4702F608 | 47K 1/6W 5 TA26 |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | R649 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R650 | ORD0682F608 | 68 1/6W 5 TA26 |
| | R651 | ORD0682F608 | 68 1/6W 5 TA26 |
| | R652 | ORD0100F608 | 10 1/6W 5 TA26 |
| | R653 | ORD2701F608 | 2.7K 1/6W 5 TA26 |
| | R654 | ORD1202F608 | 12K 1/6W 5 TA26 |
| | R655 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R656 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R657 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R658 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R659 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R660 | ORD2701F608 | 2.7K 1/6W 5 TA26 |
| | R661 | ORD1202F608 | 12K 1/6W 5 TA26 |
| | R662 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R663 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R664 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R665 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R666 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R668 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R669 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R670 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R671 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R672 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R673 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R674 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R675 | ORD2701F608 | 2.7K 1/6W 5 TA26 |
| | R676 | ORD2201F608 | 2.2K 1/6W 5 TA26 |
| | R677 | ORD1201F608 | 1.2K 1/6W 5 TA26 |
| | R678 | ORD2201F608 | 2.2K 1/6W 5 TA26 |
| | R679 | ORD1201F608 | 1.2K 1/6W 5 TA26 |
| | R68 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R69 | ORD3300F608 | 330 1/6W 5 TA26 |
| | R701 | ORC0221J654 | 220 1W 5 MF15 |
| | R702 | ORD2201F608 | 22K 1/6W 5 TA26 |
| | R704 | ORD2701F608 | 2.7K 1/6W 5 TA26 |
| | R705 | ORD1802F608 | 18K 1/6W 5 TA26 |
| | R707 | ORD2702F608 | 27K 1/6W 5 TA26 |
| | R708 | ORMC100L762 | 0.10 3W 10% Q |
| | R709 | ORD2200F608 | 220 1/6W 5 TA26 |
| | R71 | ORD3301F608 | 3.3K 1/6W 5 TA26 |
| | R710 | ORD0682F608 | 68 1/6W 5 TA26 |
| | R711 | ORD4700F608 | 470 1/6W 5 TA26 |
| | R712 | ORD3900F608 | 390 1/6W 5 TA26 |
| | R713 | ORD6800F608 | 680 1/6W 5 TA26 |
| | R714 | ORD2200F608 | 220 1/6W 5 TA26 |
| | R715 | ORMC100L762 | 0.10 3W 10% Q |
| | R716 | ORD0682F608 | 68 1/6W 5 TA26 |
| | R717 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R718 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R72 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R721 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R722 | ORD0220F608 | 22 1/6W 5 TA26 |
| | R723 | ORD0220F608 | 22 1/6W 5 TA26 |
| | R724 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R725 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R726 | ORD1003F608 | 100K 1/6W 5 TA26 |





| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | R727 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R728 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R729 | ORD2702F608 | 27K 1/6W 5 TA26 |
| | R73 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R730 | ORD1802F608 | 18K 1/6W 5 TA26 |
| | R731 | ORD3901F608 | 3.9K 1/6W 5 TA26 |
| | R732 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R733 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R734 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R735 | ORD2203F608 | 220K 1/6W 5 TA26 |
| | R736 | ORD2203F608 | 220K 1/6W 5 TA26 |
| | R737 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R738 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R739 | ORD6801F608 | 6.8K 1/6W 5 TA26 |
| | R74 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R740 | ORD6801F608 | 6.8K 1/6W 5 TA26 |
| | R749 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R75 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R750 | ORD1503F608 | 150K 1/6W 5 TA26 |
| | R752 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R753 | ORD5601F608 | 5.6K 1/6W 5 TA26 |
| | R754 | ORD2701F608 | 2.7K 1/6W 5 TA26 |
| | R758 | ORM0100L762 | 0.10 3W 10% Q |
| | R759 | ORD2200F608 | 220 1/6W 5 TA26 |
| | R76 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R760 | ORD0682F608 | 68 1/6W 5 TA26 |
| | R761 | ORD4700F608 | 470 1/6W 5 TA26 |
| | R762 | ORD3900F608 | 390 1/6W 5 TA26 |
| | R763 | ORD6800F608 | 680 1/6W 5 TA26 |
| | R764 | ORD2200F608 | 220 1/6W 5 TA26 |
| | R765 | ORM0100L762 | 0.10 3W 10% Q |
| | R766 | ORD0682F608 | 68 1/6W 5 TA26 |
| | R768 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R77 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R770 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R78 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R79 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R80 | ORD3901F608 | 3.9K 1/6W 5 TA26 |
| | R81 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R82 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R83 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R84 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R86 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R89 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R90 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R901 | ORD4703F608 | 470K 1/6W 5 TA26 |
| | R902 | ORD4702F608 | 47K 1/6W 5 TA26 |
| | R903 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R904 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R905 | ORD4703F608 | 470K 1/6W 5 TA26 |
| | R906 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R907 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R908 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R909 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R91 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R910 | ORD1002F608 | 10K 1/6W 5 TA26 |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | R911 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R912 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R913 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R914 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R915 | ORD3301F608 | 3.3K 1/6W 5 TA26 |
| | R916 | ORD6800F608 | 680 1/6W 5 TA26 |
| | R917 | ORD6801F608 | 6.8K 1/6W 5 TA26 |
| | R918 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R919 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R92 | ORD2200F608 | 220 1/6W 5 TA26 |
| | R920 | ORD1502F608 | 15K 1/6W 5 TA26 |
| | R921 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R923 | ORD7501F608 | 7.5K 1/6W 5 TA26 |
| | R924 | ORD7502F608 | 75K 1/6W 5 TA26 |
| | R925 | ORD7501F608 | 7.5K 1/6W 5 TA26 |
| | R926 | ORD7502F608 | 75K 1/6W 5 TA26 |
| | R927 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R928 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R929 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R93 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R930 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R931 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R932 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R933 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R934 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R935 | ORD3302F608 | 33K 1/6W 5 TA26 |
| | R936 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R937 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R938 | ORD2203F608 | 220K 1/6W 5 TA26 |
| | R939 | ORD1201F608 | 1.2K 1/6W 5 TA26 |
| | R94 | ORD1803F608 | 180K 1/6W 5 TA26 |
| | R940 | ORD6801F608 | 6.8K 1/6W 5 TA26 |
| | R941 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R942 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R943 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R944 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R945 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R946 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R947 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R948 | ORD6801F608 | 6.8K 1/6W 5 TA26 |
| | R949 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R950 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R951 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R951 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R952 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R952 | ORD4703F608 | 470K 1/6W 5 TA26 |
| | R953 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R953 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R954 | ORD2201F608 | 2.2K 1/6W 5 TA26 |
| | R954 | ORD4701F608 | 4.7K 1/6W 5 TA26 |
| | R955 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R955 | ORD8201F608 | 8.2K 1/6W 5 TA26 |
| | R956 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R957 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R958 | ORD1201F608 | 1.2K 1/6W 5 TA26 |
| | R959 | ORD1002F608 | 10K 1/6W 5 TA26 |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | R960 | ORD1J03F608 | 100K 1/6W 5 TA26 |
| | R965 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R966 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R967 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R968 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R969 | ORD2202F608 | 22K 1/6W 5 TA26 |
| | R970 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R974 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R975 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R976 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R977 | ORD3301F608 | 3.3K 1/6W 5 TA26 |
| | R978 | ORD2702F608 | 27K 1/6W 5 TA26 |
| | R979 | ORD1001F608 | 1.0K 1/6W 5 TA26 |
| | R980 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R980 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R981 | ORD1002F608 | 10K 1/6W 5 TA26 |
| | R984 | ORD2201F608 | 2.2K 1/6W 5 TA26 |
| | R985 | ORD5602F608 | 56K 1/6W 5 TA26 |
| | R986 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R987 | ORD2201F608 | 2.2K 1/6W 5 TA26 |
| | R988 | ORD5602F608 | 56K 1/6W 5 TA26 |
| | R989 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R99 | ORD1000F608 | 100 1/6W 5 TA26 |
| | R990 | ORD2200F608 | 220 1/6W 5 TA26 |
| | R991 | ORD2200F608 | 220 1/6W 5 TA26 |
| | R992 | ORD5602F608 | 56K 1/6W 5 TA26 |
| | R993 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R99- | ORD2201F608 | 2.2K 1/6W 5 TA26 |
| | R995 | ORD5602F608 | 56K 1/6W 5 TA26 |
| | R996 | ORD1003F608 | 100K 1/6W 5 TA26 |
| | R997 | ORD2200F608 | 220 1/6W 5 TA26 |
| | R998 | ORD2200F608 | 220 1/6W 5 TA26 |

## COILS

| | | | |
|---|---|---|---|
| | LPF111 | 638-1024 | COIL.MPX FILTER 19K, 38K (S) |
| | LPF151 | 638-1024 | COIL.MPX FILTER 19K, 38K (S) |
| | L101 | 634-700E | RBW07VB-K5004 MW RF OSC TOKO |
| | L103 | OLA0102K018 | 10M K 2.3X3.4 L5 TP |
| | L104 | OLA0102K018 | 10M K 2.3X3.4 L5 TP |
| | L501 | OLA0102K018 | 10M K 2.3X3.4 L5 TP |
| | L502 | OLA0102K018 | 10M K 2.3X3.4 L5 TP |
| | L503 | OLA0102K018 | 10M K 2.3X3.4 L5 TP |
| | L504 | OLA0102K018 | 10M K 2.3X3.4 L5 TP |
| | L505 | OLA0102K018 | 10M K 2.3X3.4 L5 TP |
| | L506 | OLA0102K018 | 10M K 2.3X3.4 L5 TP |
| | L507 | OLA0332K018 | 33M K 2.3X3.4 L5 TP |
| | L508 | OLA0102K018 | 10M K 2.3X3.4 L5 TP |
| | L509 | OLA0102K018 | 10M K 2.3X3.4 L5 TP |
| | T101 | 644-040A | PCFMA-157,MW IF TOKO |

## DISPLAYS

| | | | |
|---|---|---|---|
| | FL501 | 659-250S | 11BT-129GK.DIGITRON.FUTABA |
| | FL502 | 659-250U | BJ-258GK.DIGITRON.FUTABA |

## FILTERS

| | | | |
|---|---|---|---|
| | CF101 | 616-010B | SFE10.7MS3GH(RD) 180K (S) |
| | CF102 | 616-010B | SFE10.7MS3GH(RD) 180K (S) |
| | X101 | 6177602D | 7.2MHZ |
| | X102 | 616-021E | CDA10.7MG37-A MURATA |
| | X104 | 616-020L | RESO NATOR.CSB456F15 |

| S | LOCA.NO | PART NO(GS) | SPECIFICATION |
|---|---|---|---|
| | X501 | 6177602F | 32.768KHZ KTOCERA (C) |
| | X502 | 616-020P | CSA6.00MGU MURATA |

## FUSES

| S | | | |
|---|---|---|---|
| ⚠ | F101 | 0FT2501B51B | 2.5A 250V 5.2X20 PT/G SMK |
| ⚠ | F103 | 0FT1501B51B | 1.50A 250V 5.2X20 CY/GL UL/CSA |
| ⚠ | F104 | 0FT1501B51B | 1.50A 250V 5.2X20 CY/GL UL/CSA |
| ⚠ | F105 | 0FT3151B51B | 3.15A 250V 5.2X20 G SMK |
| ⚠ | F106 | 0FT3151B51B | 3.15A 250V 5.2X20 G SMK |

## JACKS

| | | | |
|---|---|---|---|
| | JKPHON | 576-002A | JACK.BLOCK S-437P-4P(WH/RD)(S) |
| | JK101 | 561-950J | 2216R-10 SYSTEM CNT WAFER |
| | JK301( | 571-112C | SHQ9085-01-040/HSJ9014-01-040 |
| | JK302( | 561-950T | 2216R-20 SYSTEM CNT WAFER |
| | JK303 | OLA1000K018 | 100M K 2.3X3.4 L5 TP |
| | JK901 | ODL340009AQ | SLR-34VR N49 2K/ TP ROHM/K |
| | JK903 | ODL340009AQ | SLR-34VR N49 2K/ TP ROHM/K |
| | TML701 | 5a1-100E | TERMIANL SPEAKER SP-034A |

## RELAY

| | | | |
|---|---|---|---|
| | RLY101 | 557-021G | RELAY, VB-12MBU TAKAMISAWA |
| | RY702 | 557-021C | DH12D2-05(M) DAIICHI |

## SWITCHES

| | | |
|---|---|---|
| SW505 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW506 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW507 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW508 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW509 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW510 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW511 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW512 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW513 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW514 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW515 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW516 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW517 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW518 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW519 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW520 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW521 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW522 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW523 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW524 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW525 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW526 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW527 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW528 | 558T908A | TACT SKHV10908A H=4.3 TP |
| SW530 | 558T908A | TACT SKHV10908A H=4.3 TP |

## TUNER

| | | | |
|---|---|---|---|
| | TUN101 | 521-026Y | FE340-A01 MITSUMI |

## THERMISTOR

| | | | |
|---|---|---|---|
| | POS702 | 655-005I | PTH9M04BB222TS2F335 MURATA |

## VARIABLE RESISTORS

| | | | |
|---|---|---|---|
| | VR501 | 611-663B | RK16K1280-100KBX2 L=20(F),CC |
| | VR601 | 611-646M | RK16813MG 100KBX2 W/LOUD |
| | VR901 | 611-649I | RK16K1270-20KAX2 |
| | VR902 | 611-649I | RK16K1270-20KAX2 |





| S | LOCA.NO | PART NO(GS) | DESCRIPTION | SPECIFICATION | REMARKS |
|---|---|---|---|---|---|
| **MISCELLANEOUS** | | | | | |
| | | 3874S-570!E | MANUAL, OPERATION | F-676A BGS(3GM) | |
| | | 3890S-0047A | BOX | FR-676 KW1 | |
| | | 533-010K | ANTENNA ASSY | ANT FM "T"(N-HOLE/N-TERM TYPE) | |
| | | 591-005A | ADAPTER | MIC ADAPTER 3.4 TO 3.5MM KDS | |
| | | 591N01CA | ADAPTER | ADAPTER CONVERSION 3S01898 (S) | |
| | ⚠ | 6170S-005ZH | POWER TRANS | 115/230V 50/60HZ EI74X55 | |
| | | 632-218F | COIL ANTENNA | COIL ANT LOOP MW(W/O LABEL,LUG | |
| | | 67105-A0C3B | REMOTE CONTROLLER | F-676A(GOLD)TAR1DONG-DO | |
| | | 681-004F-B1T2 | CORD POWER | 681-004F-B1T2 KDK | |
| | | 6871G-21UDA | PWB ASSY | MAIN PWB ASSY BGS FR-676 | |
| | | 6871G-25NAC | PWB ASSY | FRONT PWB ASSY BGS FR-676 | |
| | | 6871CA21UBA | PWB ASSY | MAIN(POWER)FF-676 WG2 | |
| | | 6871GA25NA8 | PWB ASSY | FRONT(MAIN)WG3.STEP CHANGE | |
| | | 6871GB21UBA | PWB ASSY | MAIN(VOLUME)FR-676 WG2 | |
| | | 6871GB25NAB | PWB ASSY | TRANS POWER ASSY 220/50-ION | |
| | | 6871GC21UBA | PWB ASSY | MAIN(MAIN)FR-676 WG2 | |
| | | 6871GC25NAA | PWB ASSY | FRONT(MIC/H-PHONE PWB)WG2 | |
| | | 6871GD21UBA | PWB ASSY | TUNER PWB ASSY BGS(-ION) | |
| | | 6871GD25NAA | PWB ASSY | FRONT(VR LED PWB)WG2 | |